

FIG. 1(a)

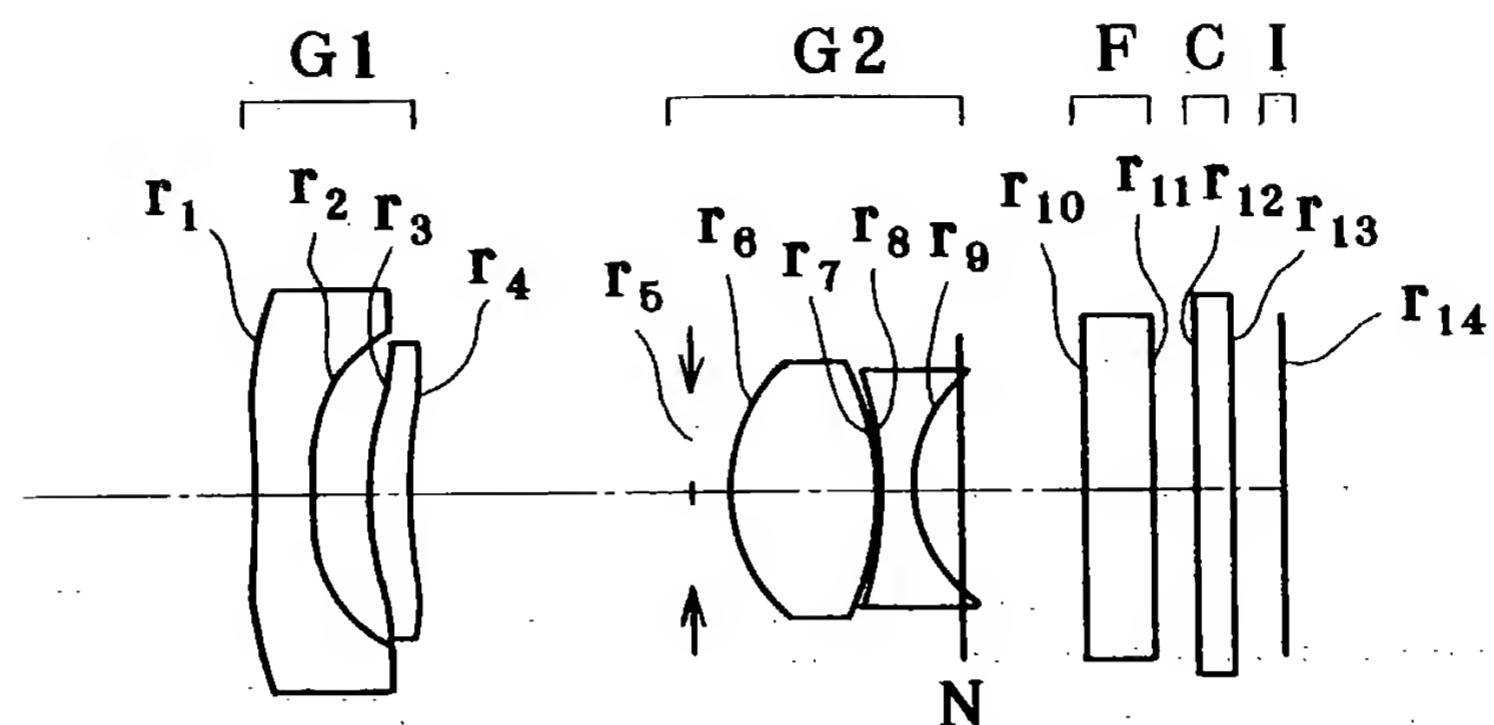


FIG. 1(b)

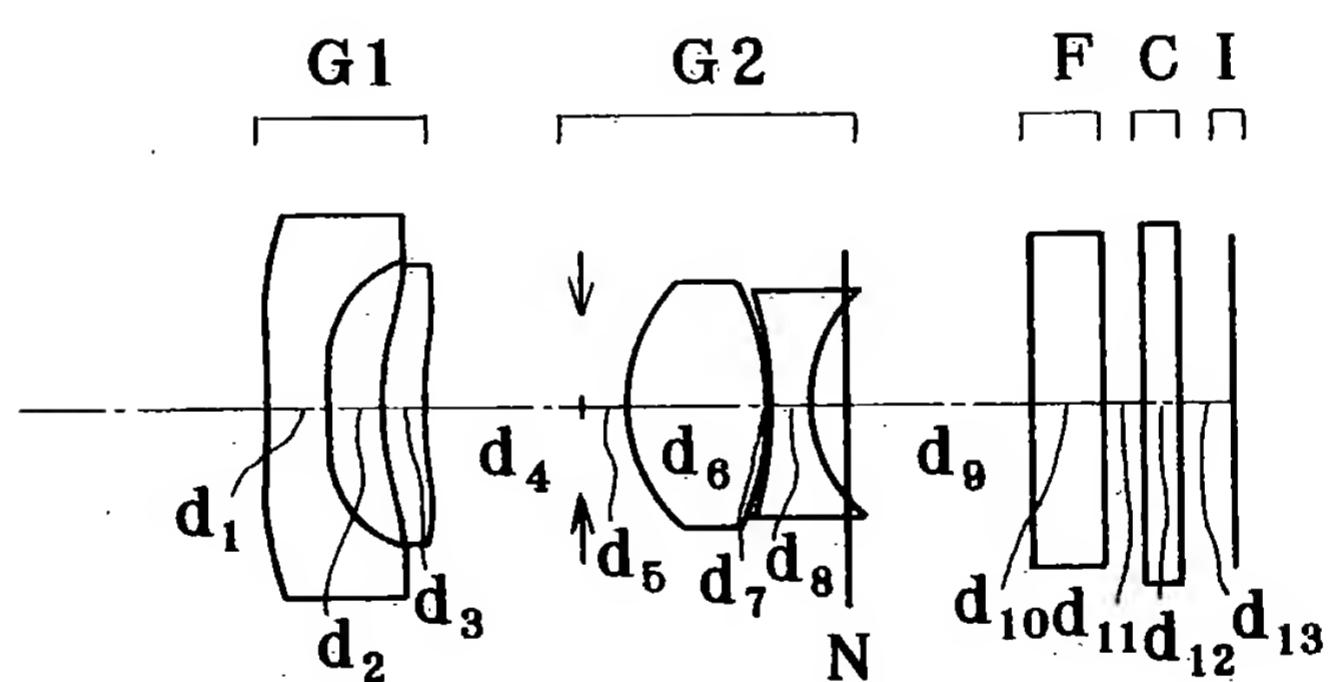


FIG. 1(c)

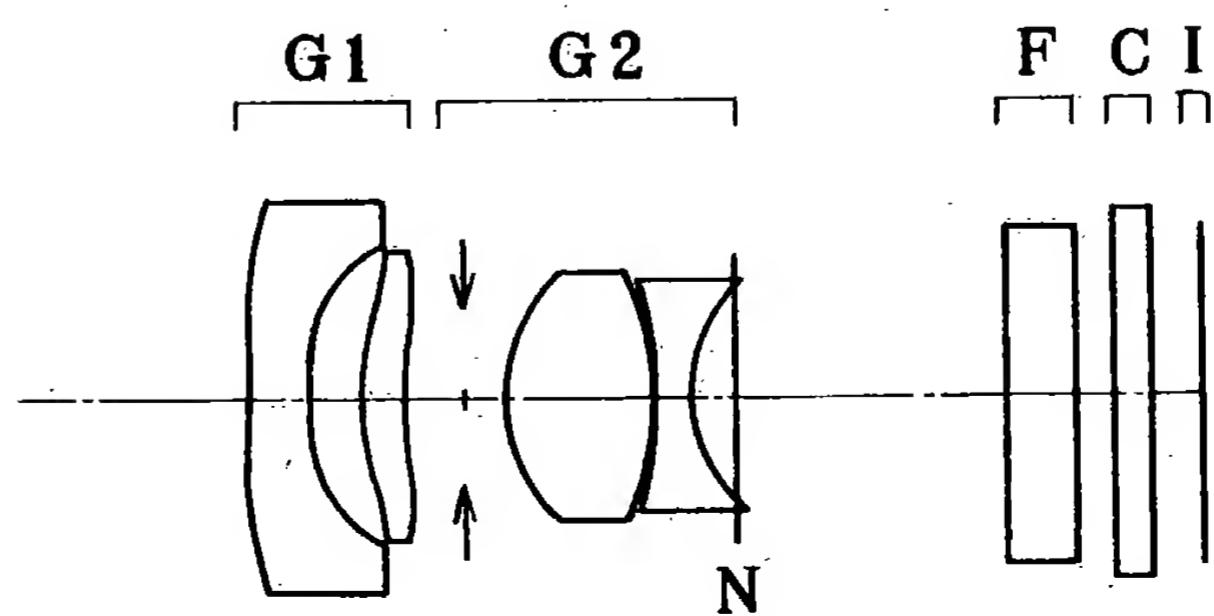


FIG. 2(a)

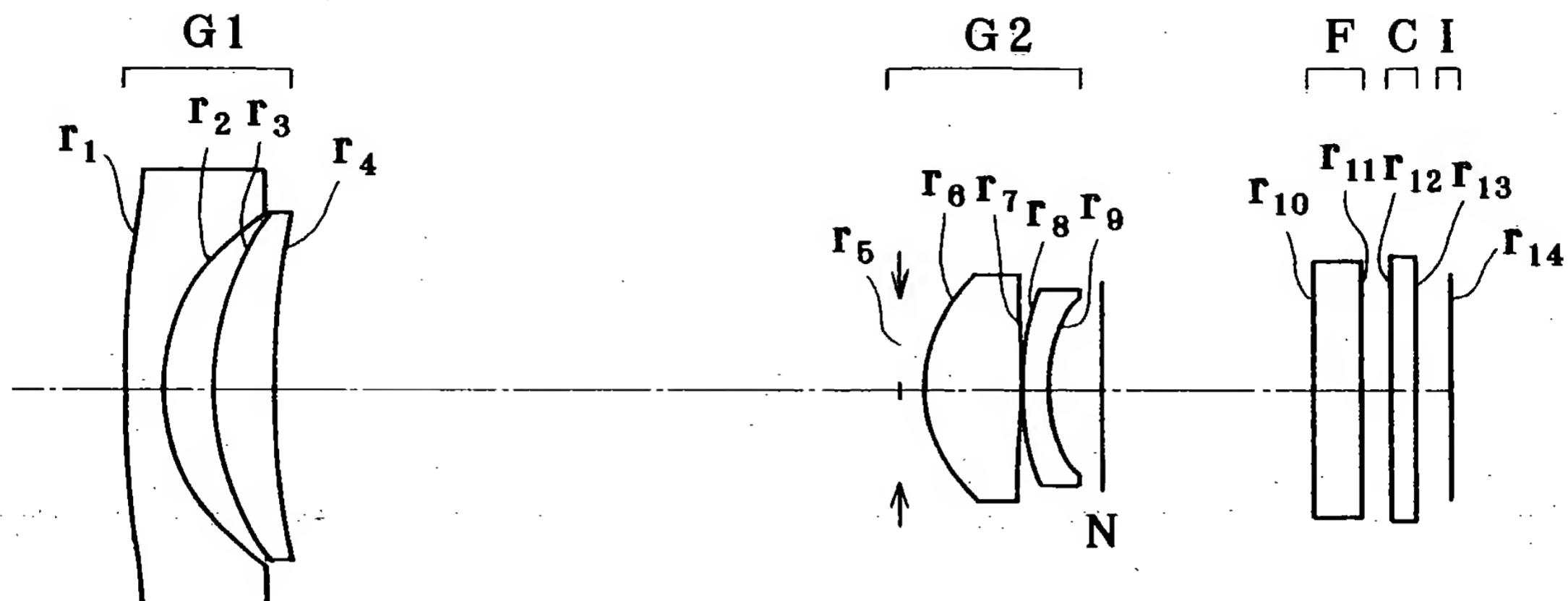


FIG. 2(b)

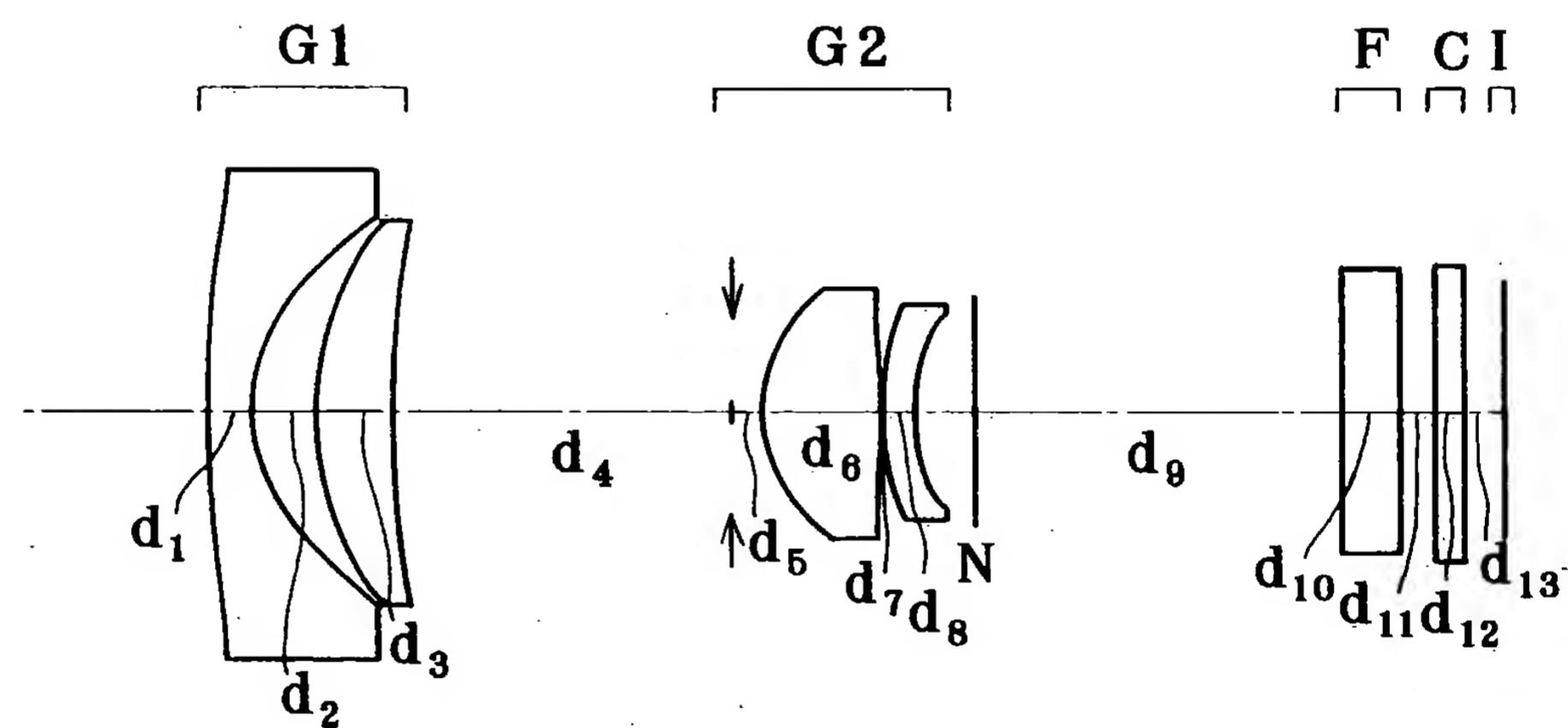


FIG. 2(c)

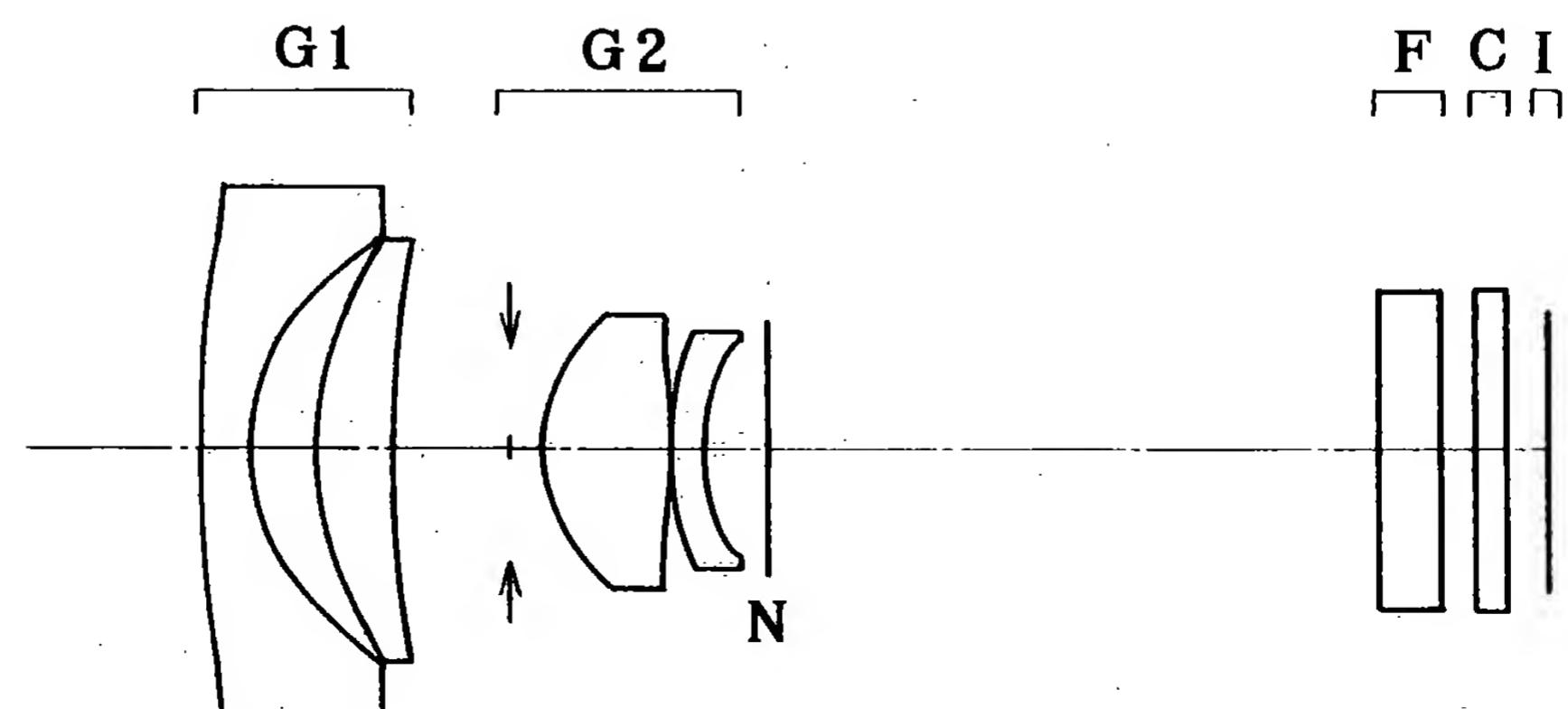


FIG. 3(a)

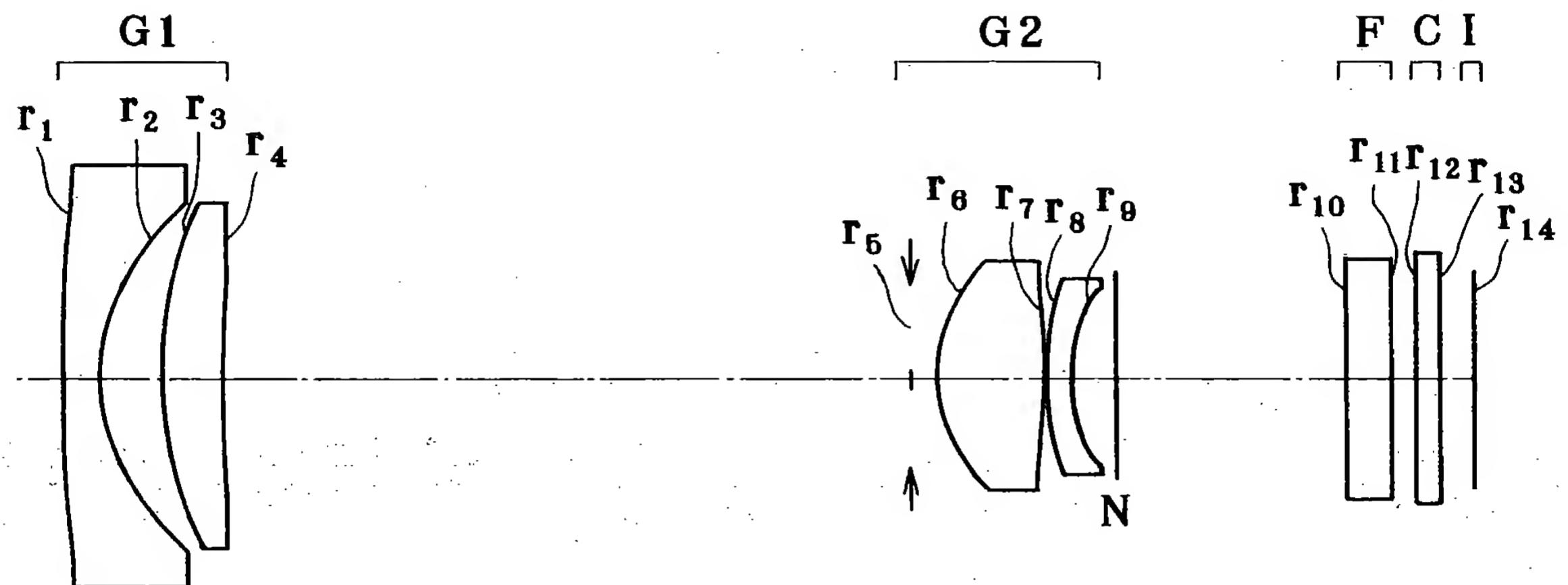


FIG. 3(b)

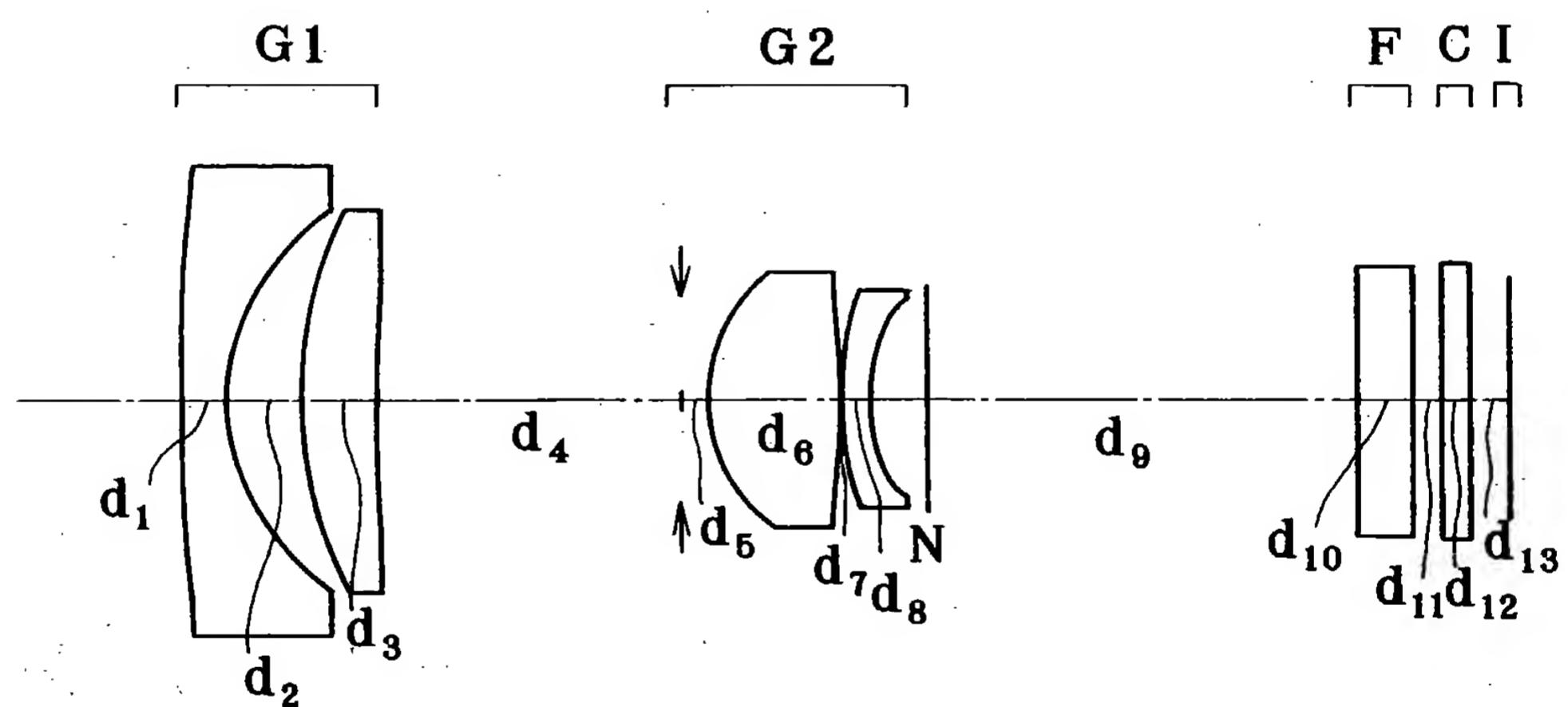


FIG. 3(c)

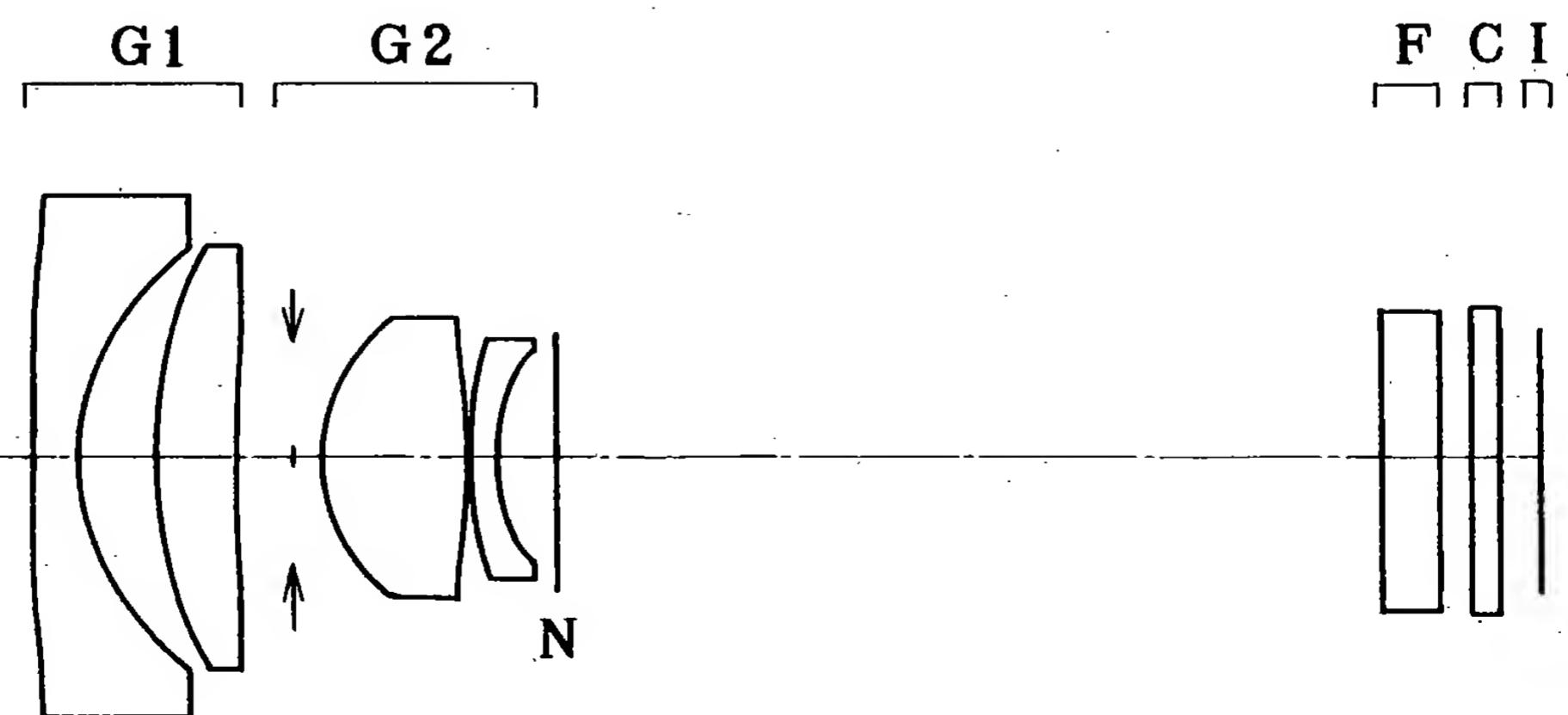


FIG. 4(a)

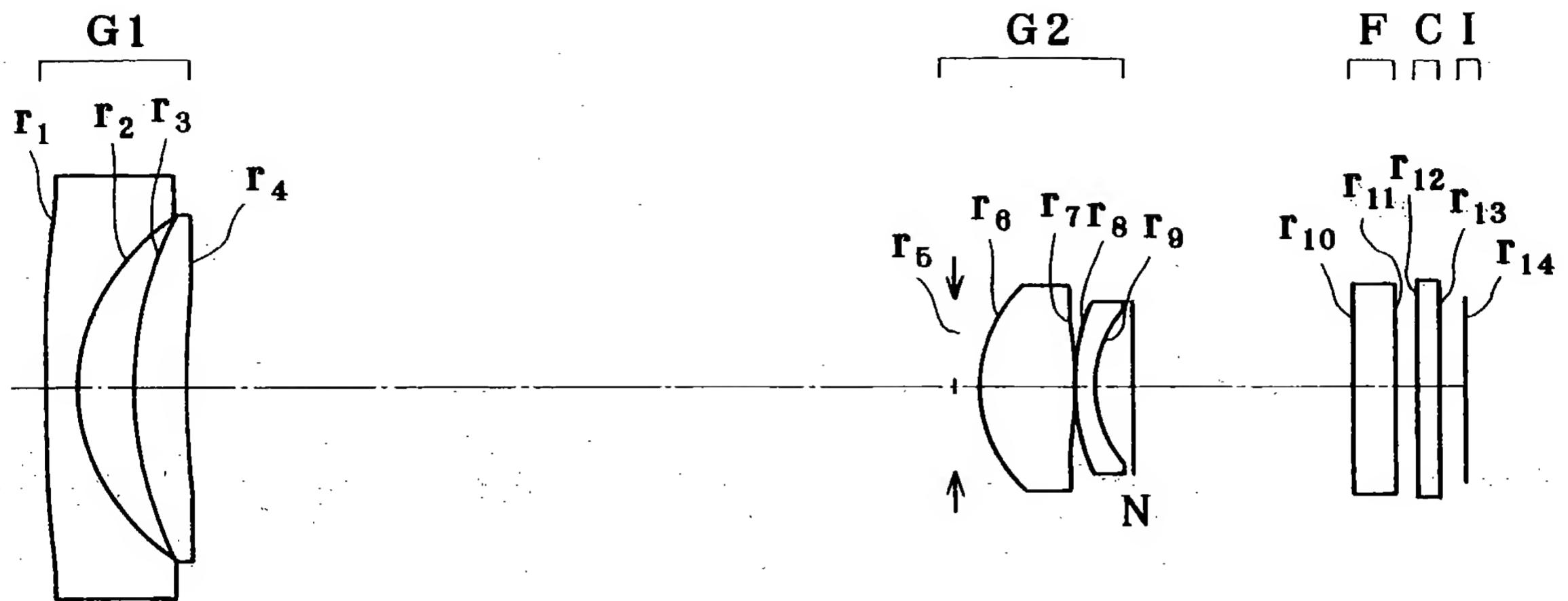


FIG. 4(b)

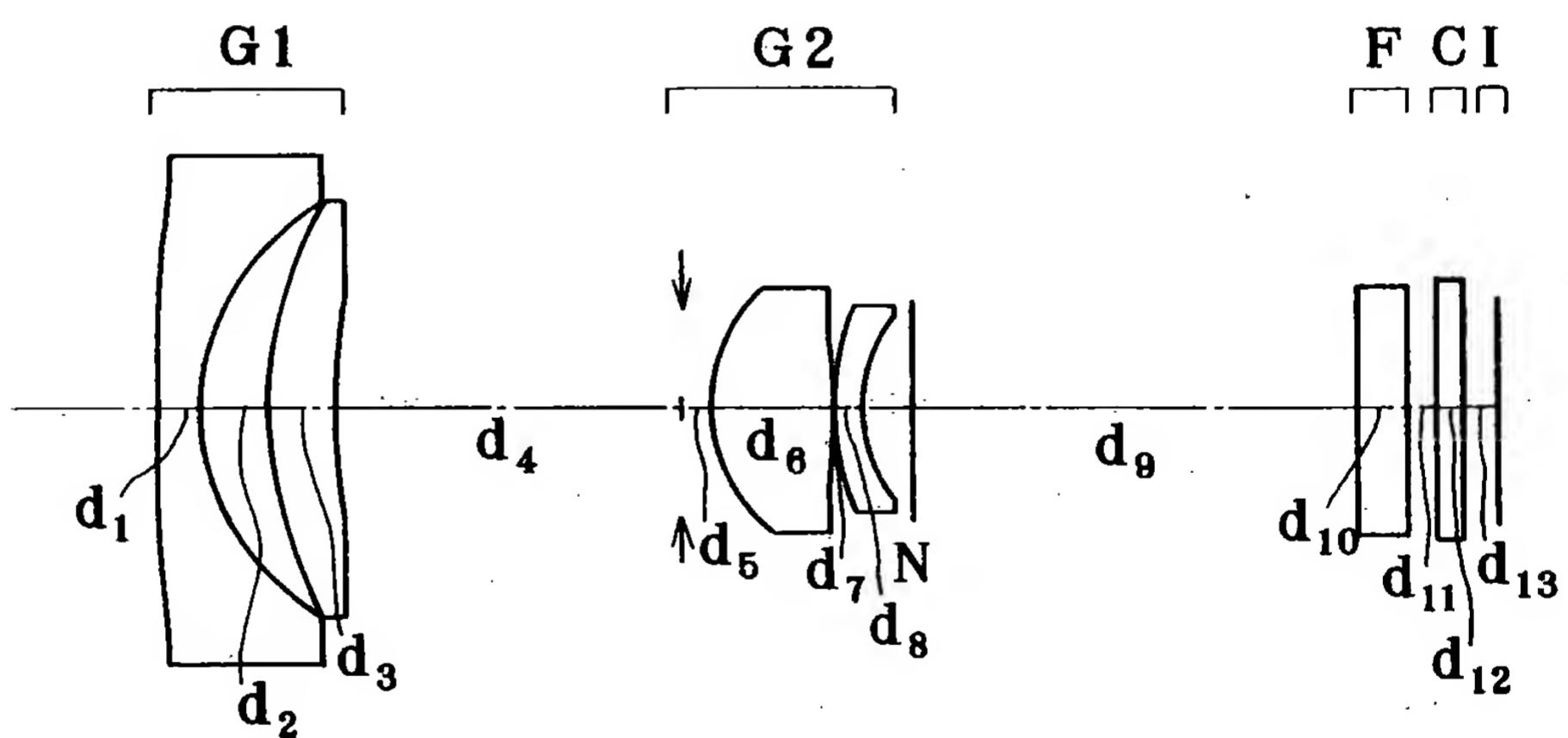


FIG. 4(c)

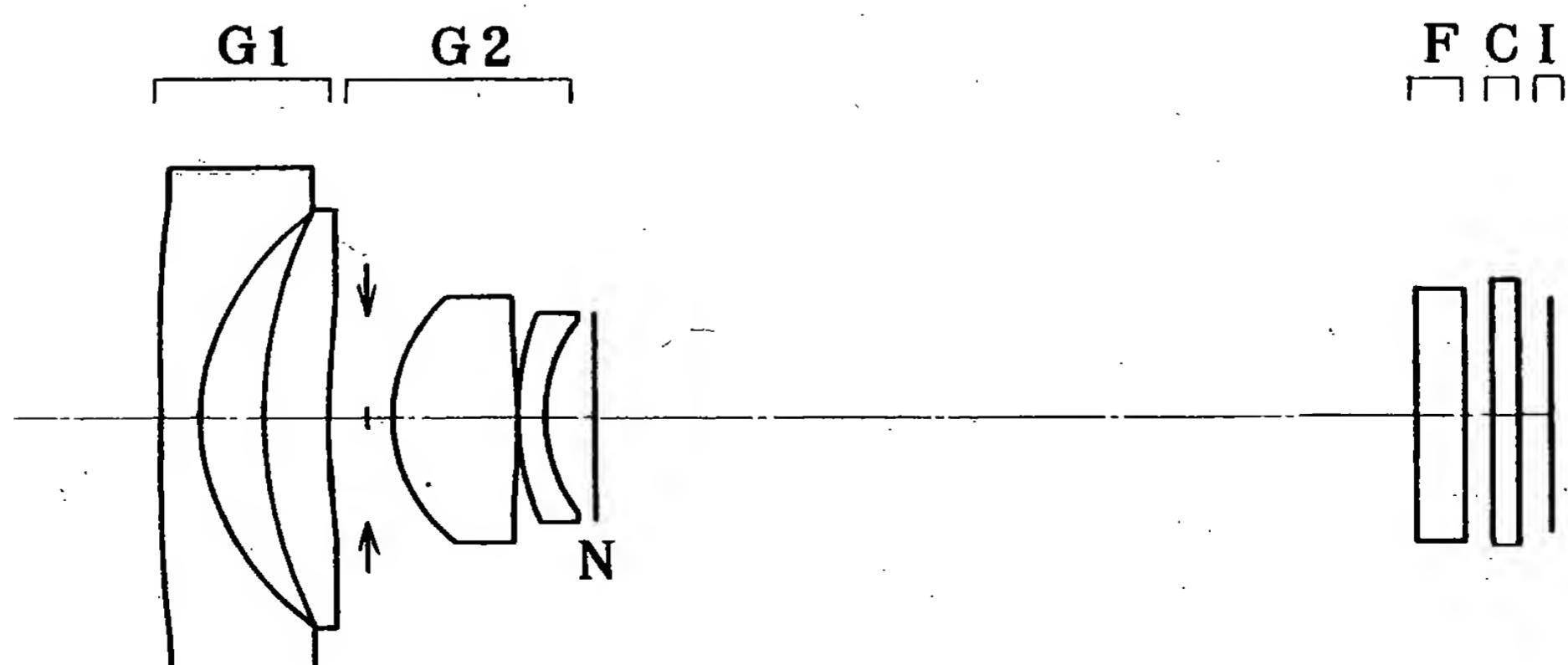


FIG. 5(a)

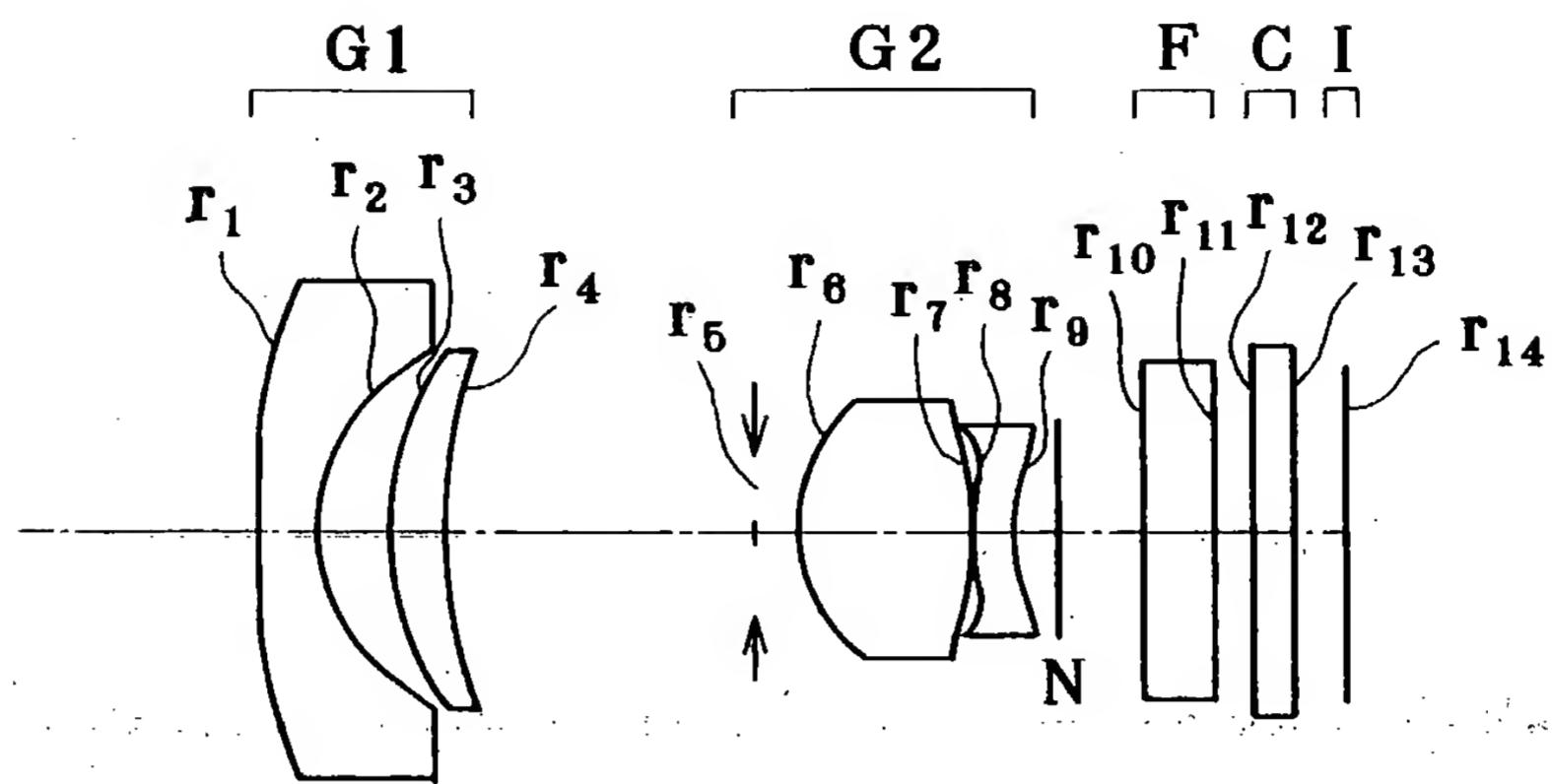


FIG. 5(b)

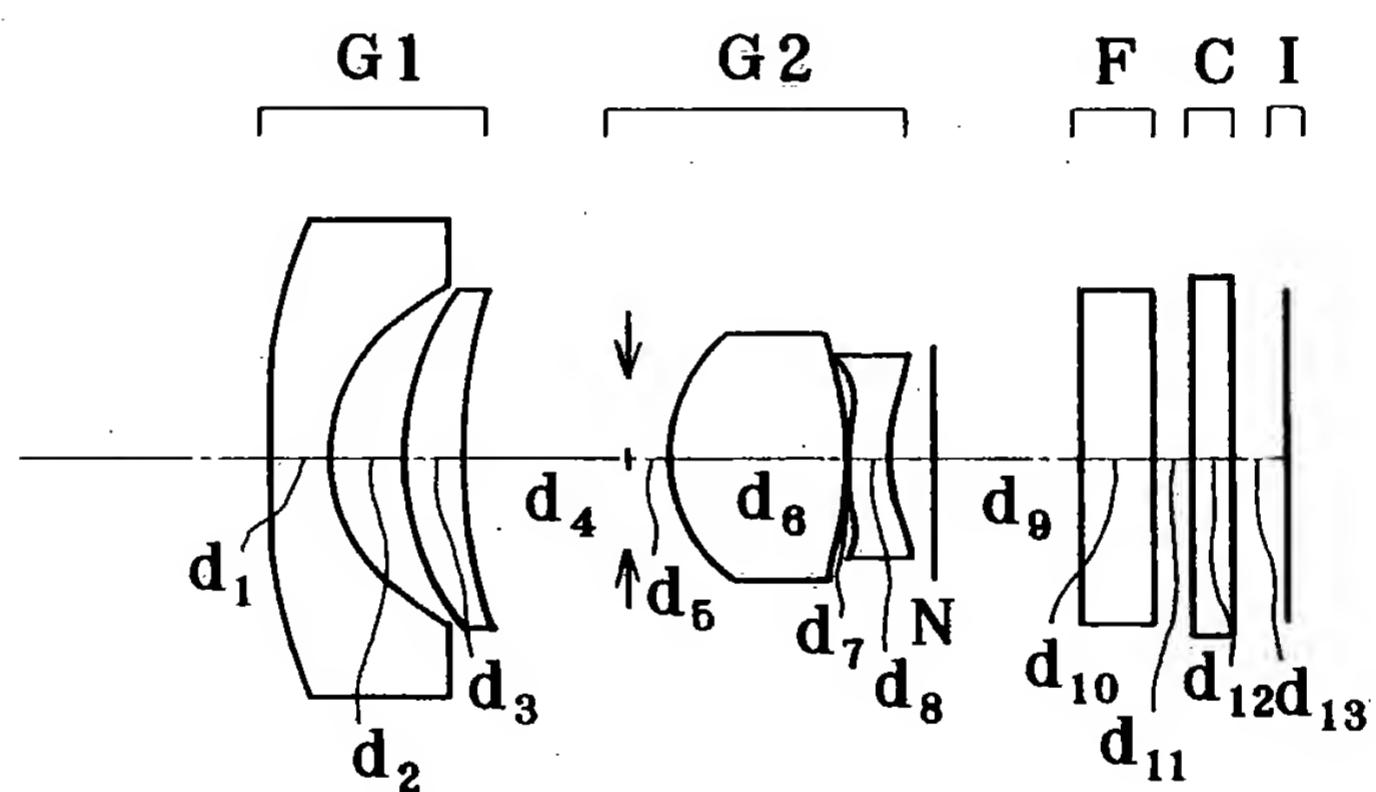


FIG. 5(c)

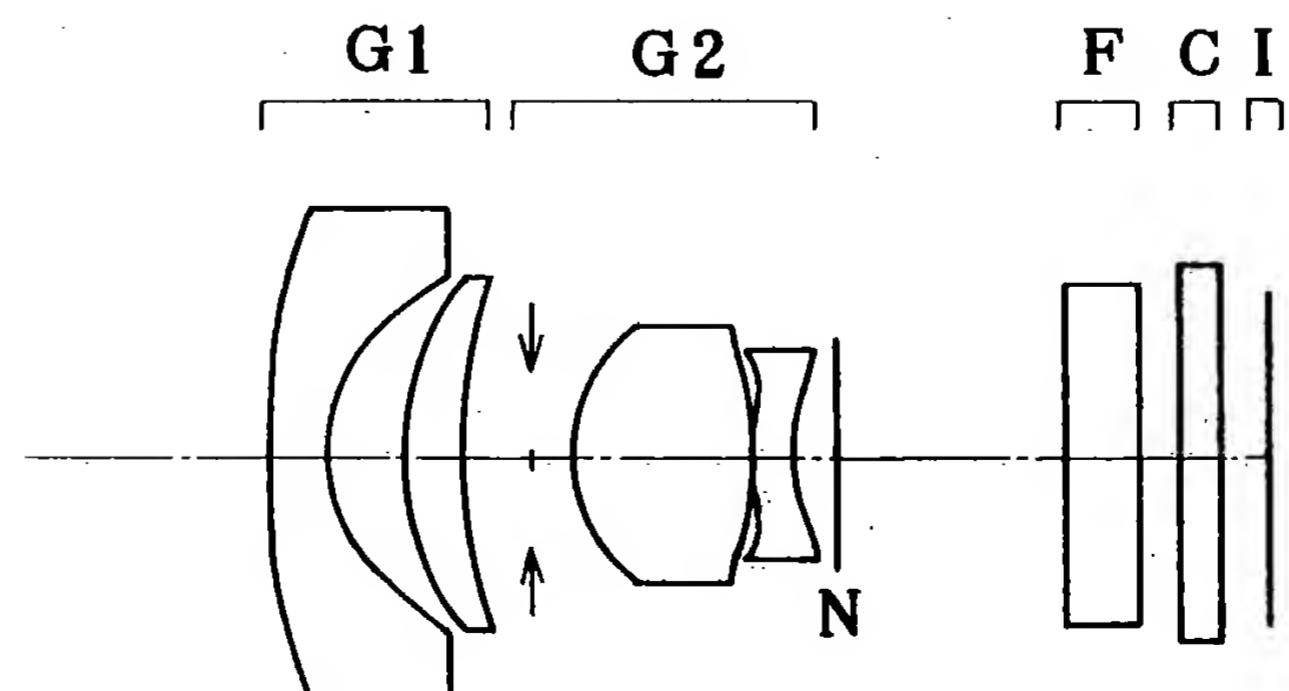


FIG. 6(a)

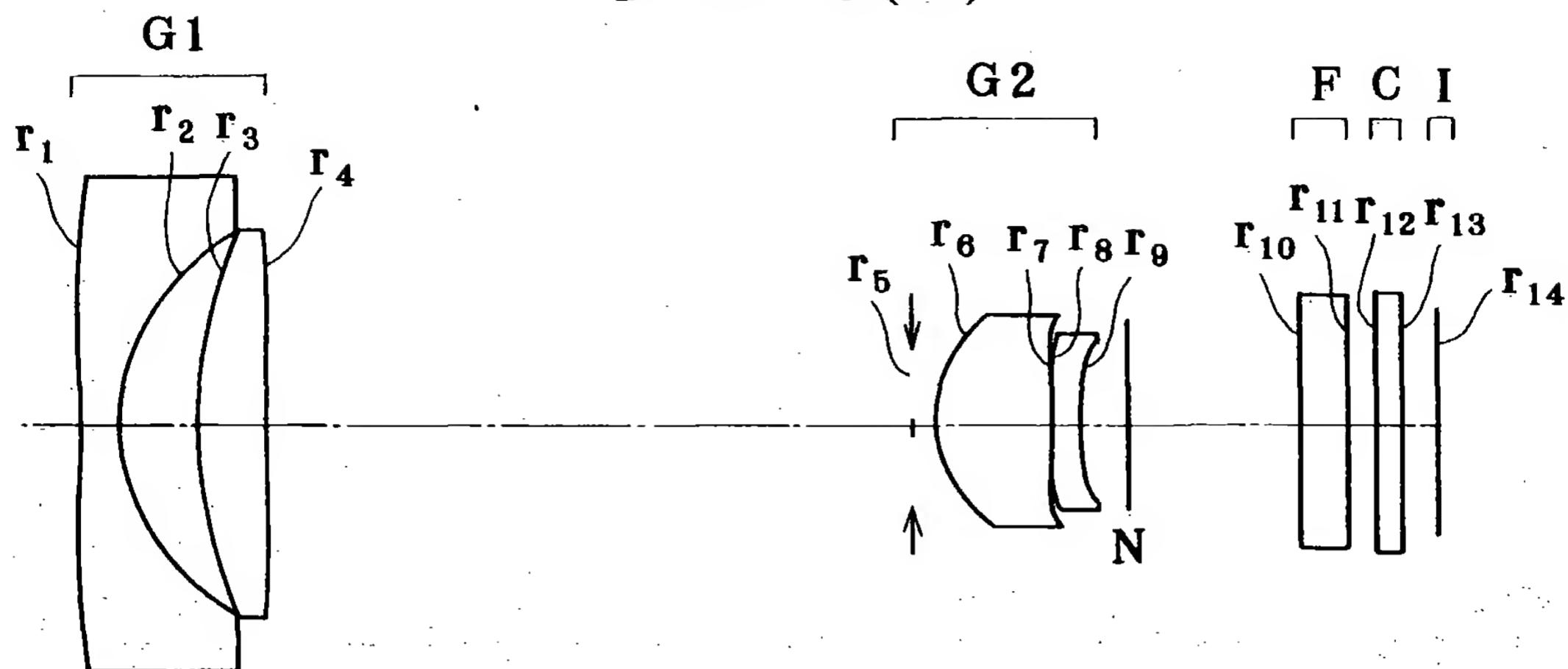


FIG. 6(b)

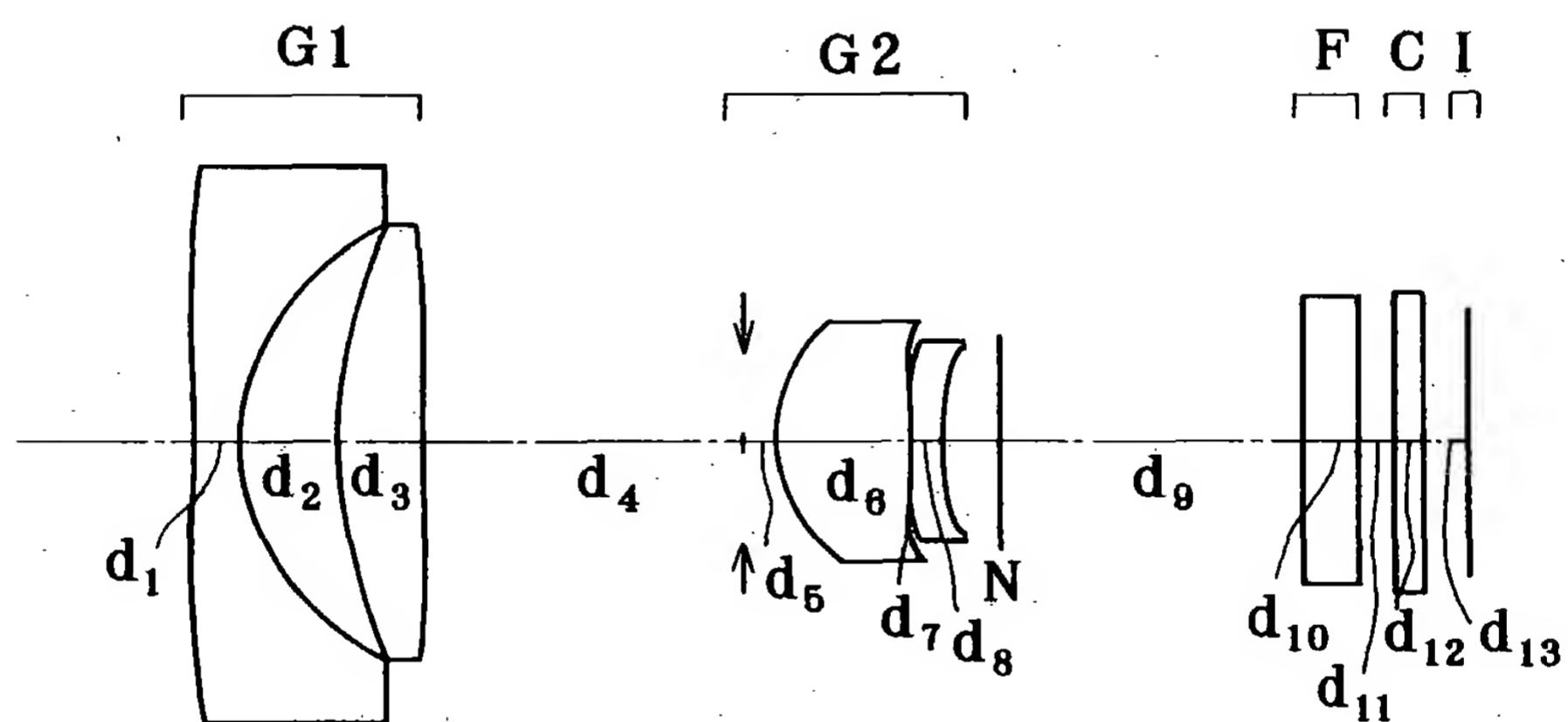


FIG. 6(c)

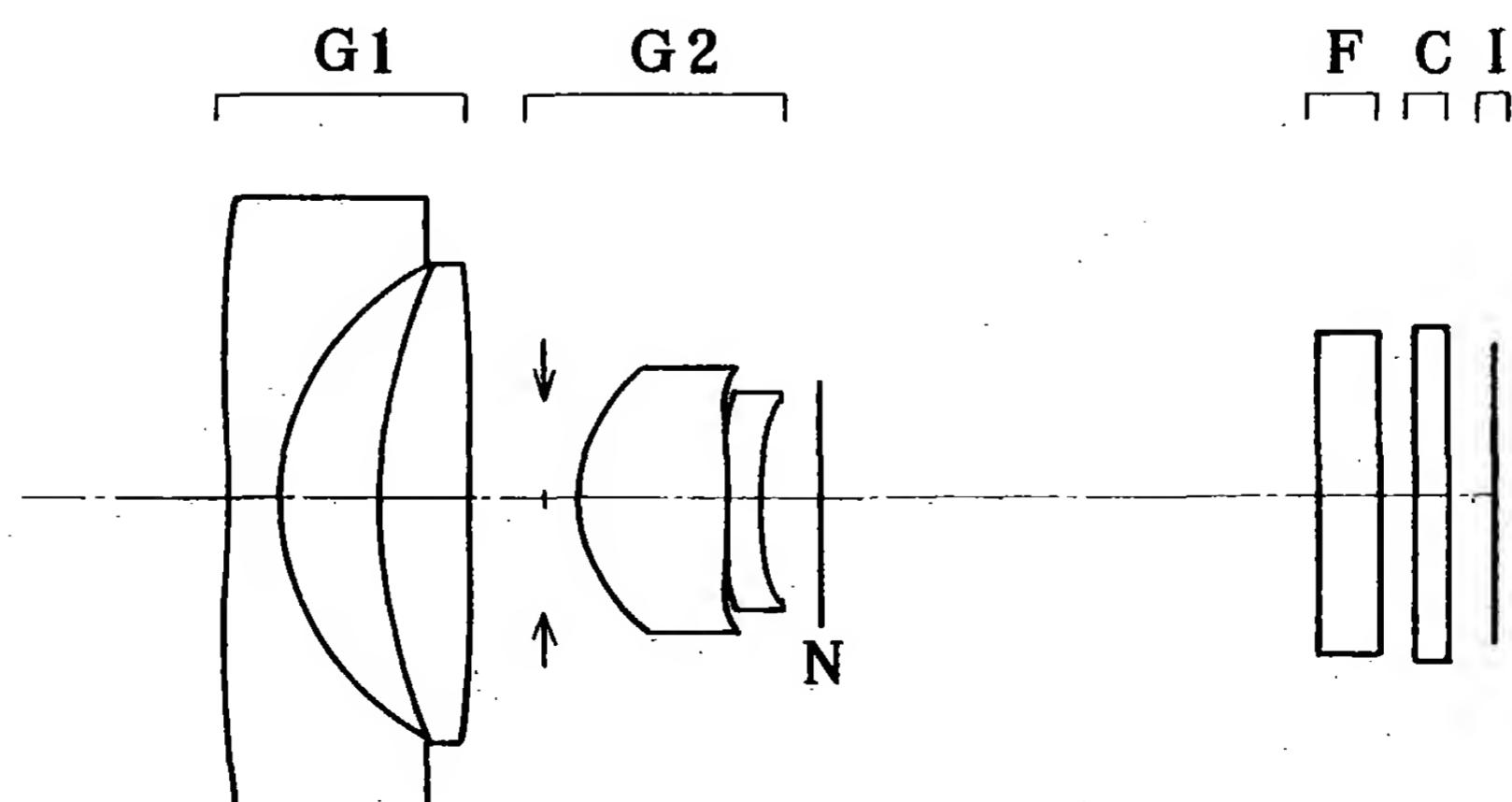


FIG. 7(a)

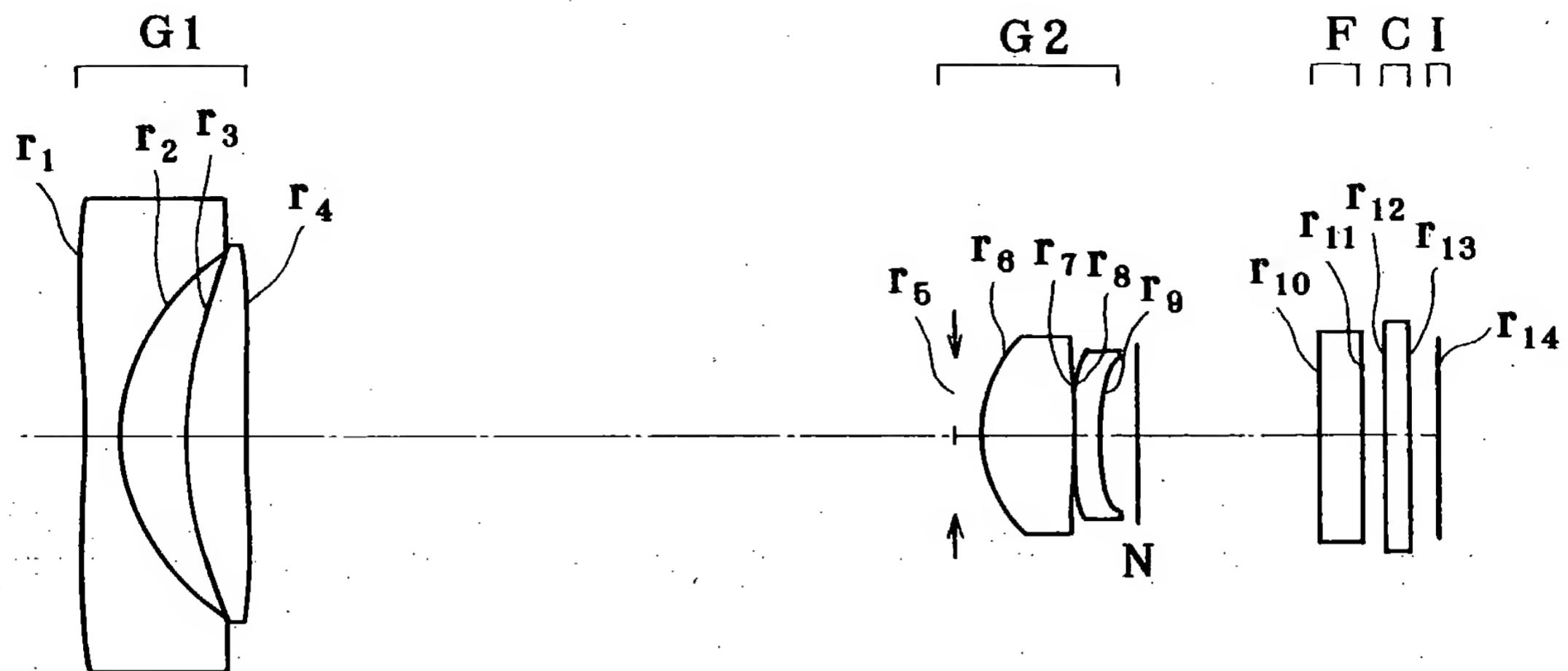


FIG. 7(b)

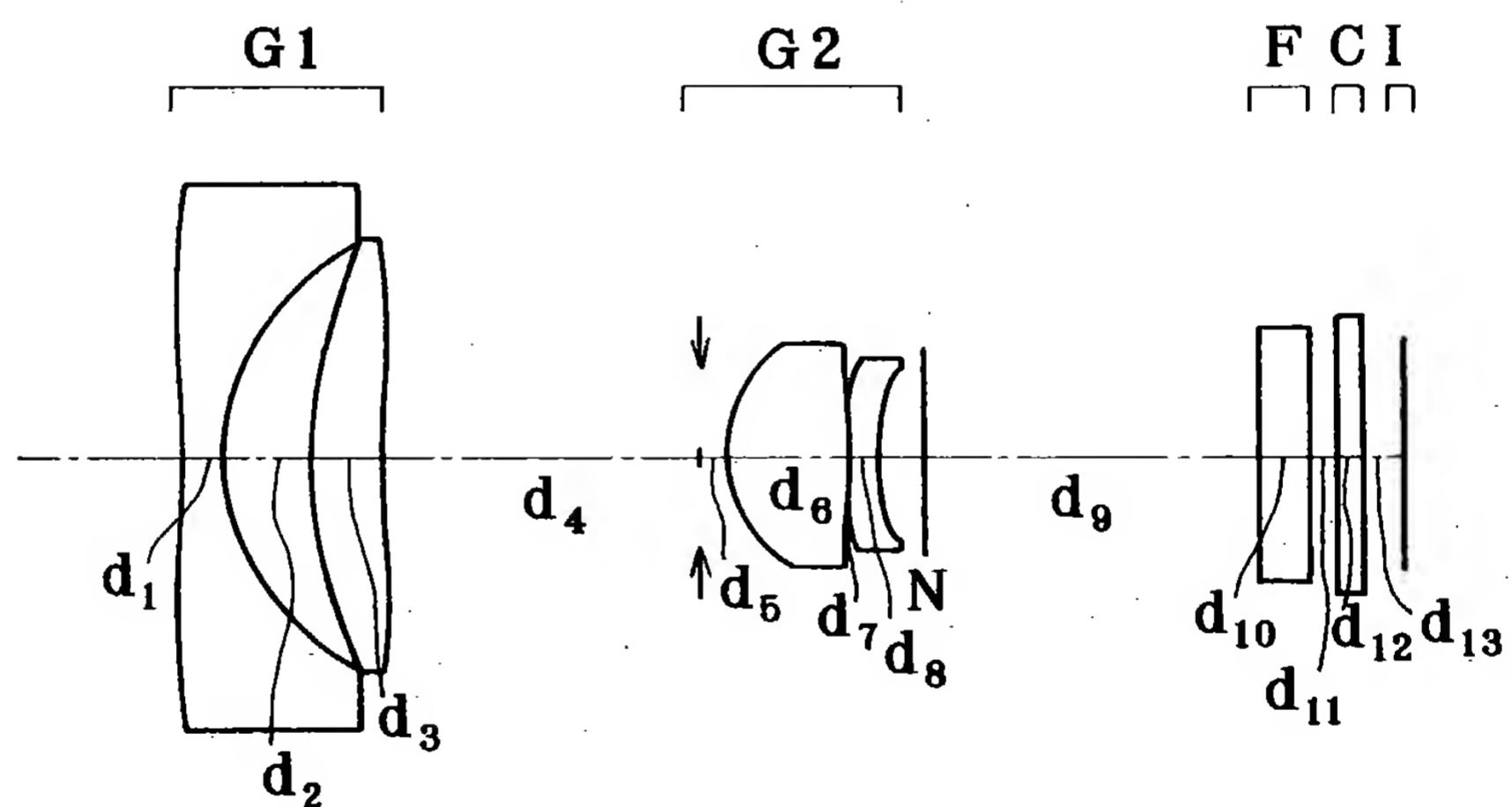


FIG. 7(c)

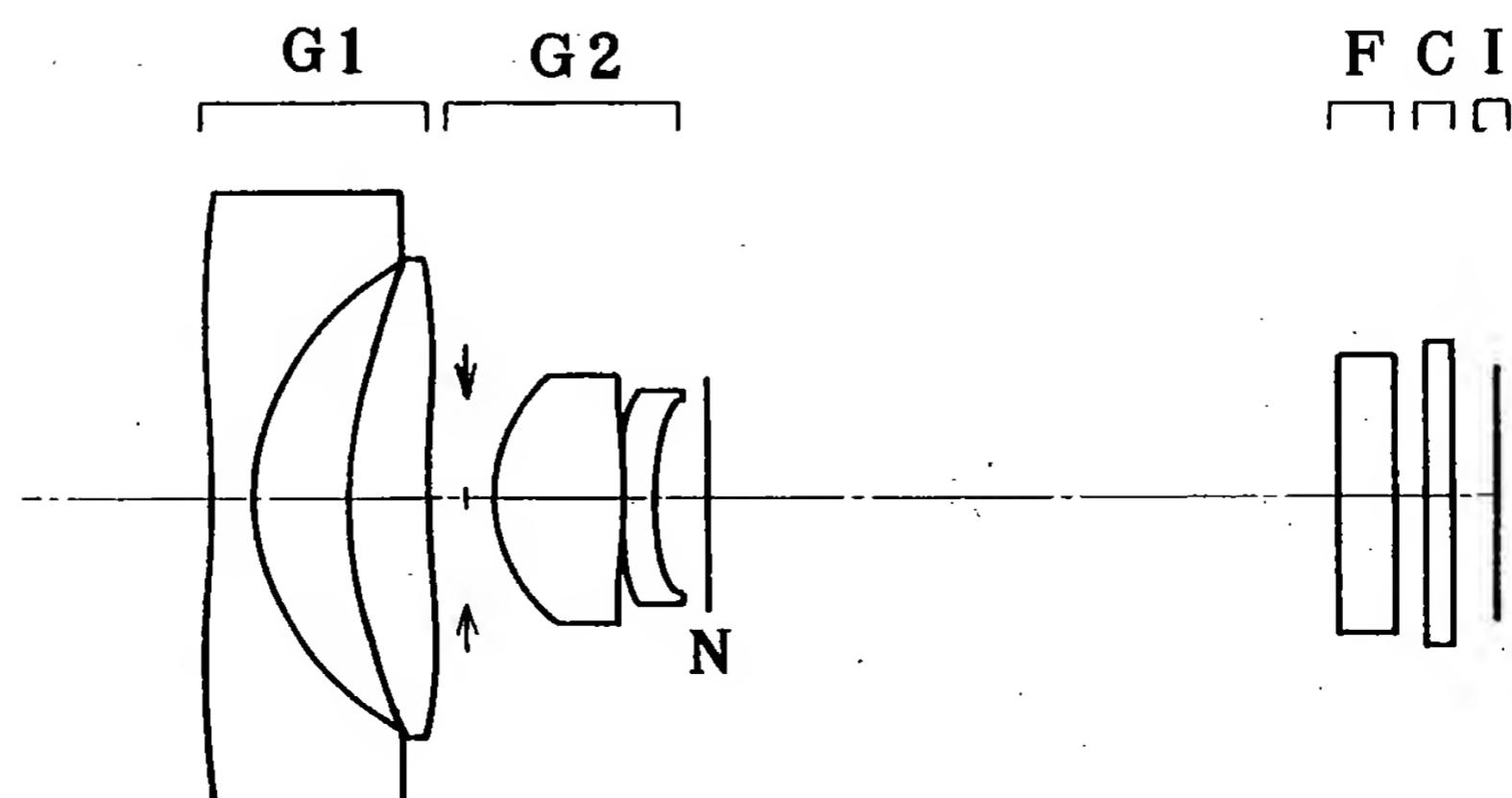


FIG. 8(a)

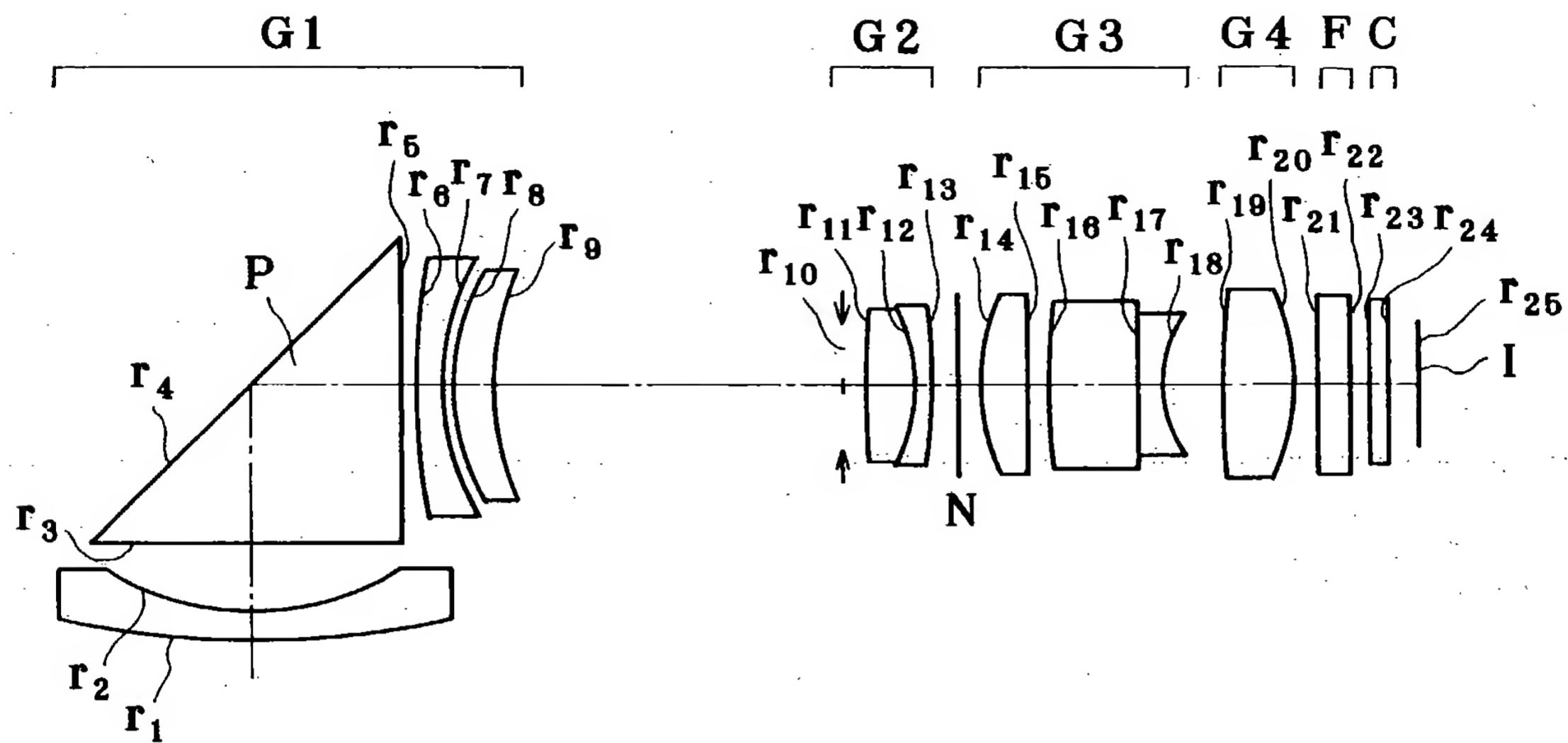


FIG. 8(b)

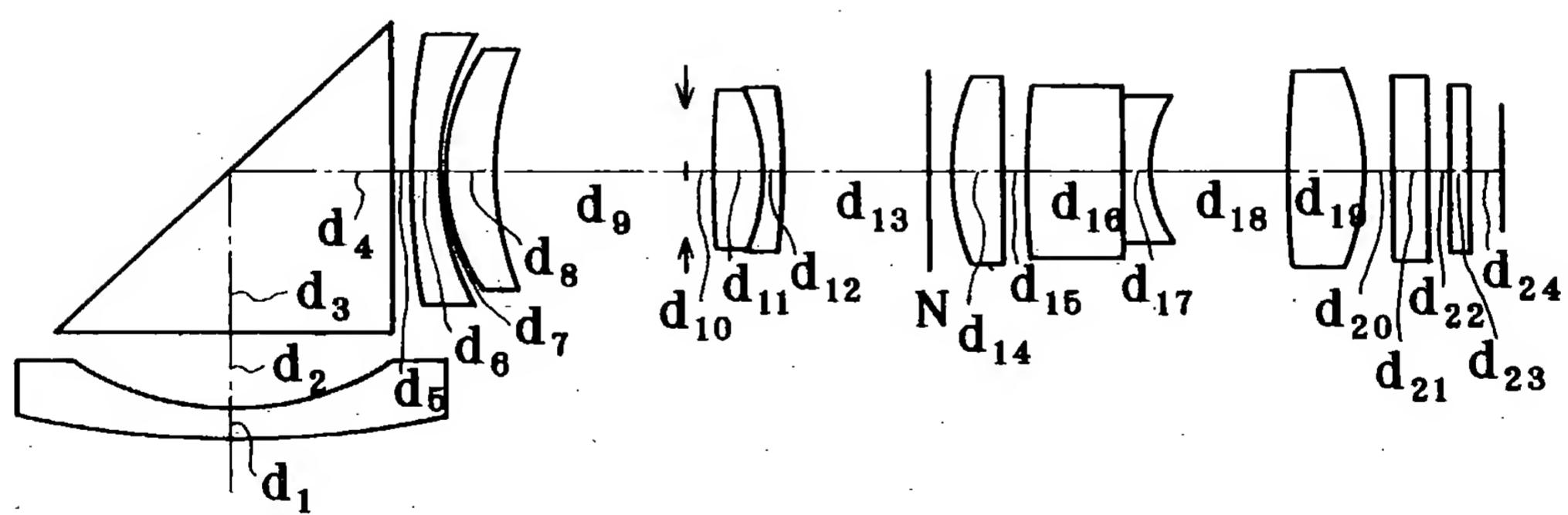


FIG. 8(c)

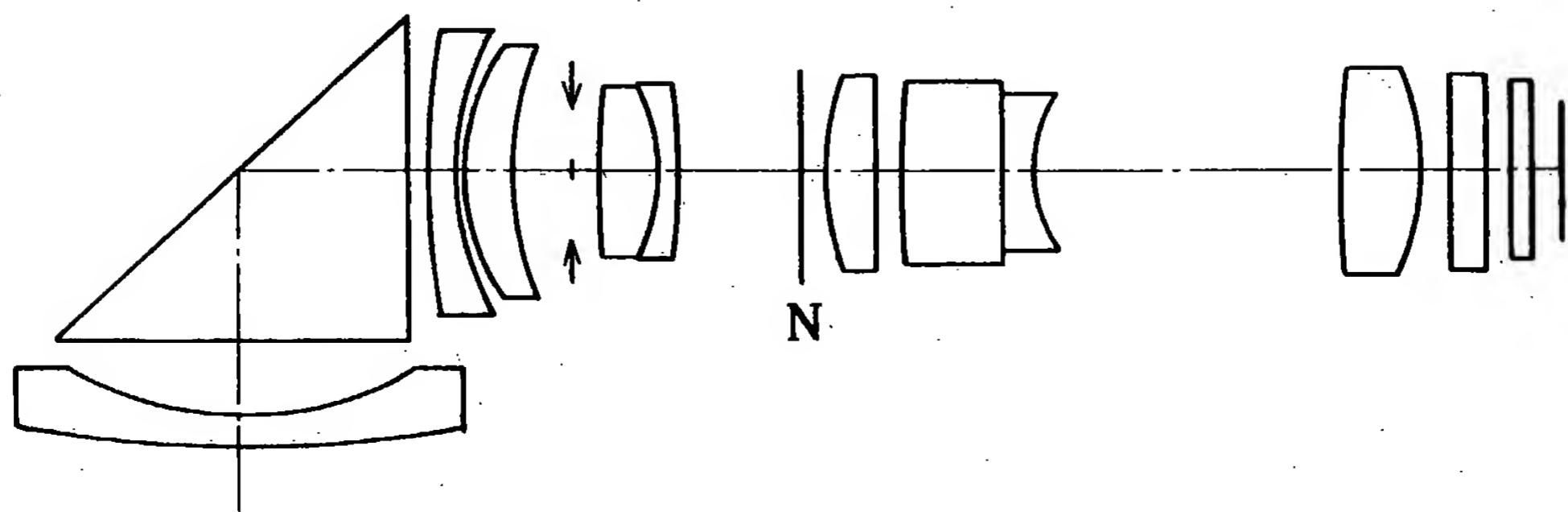


FIG. 9(a)

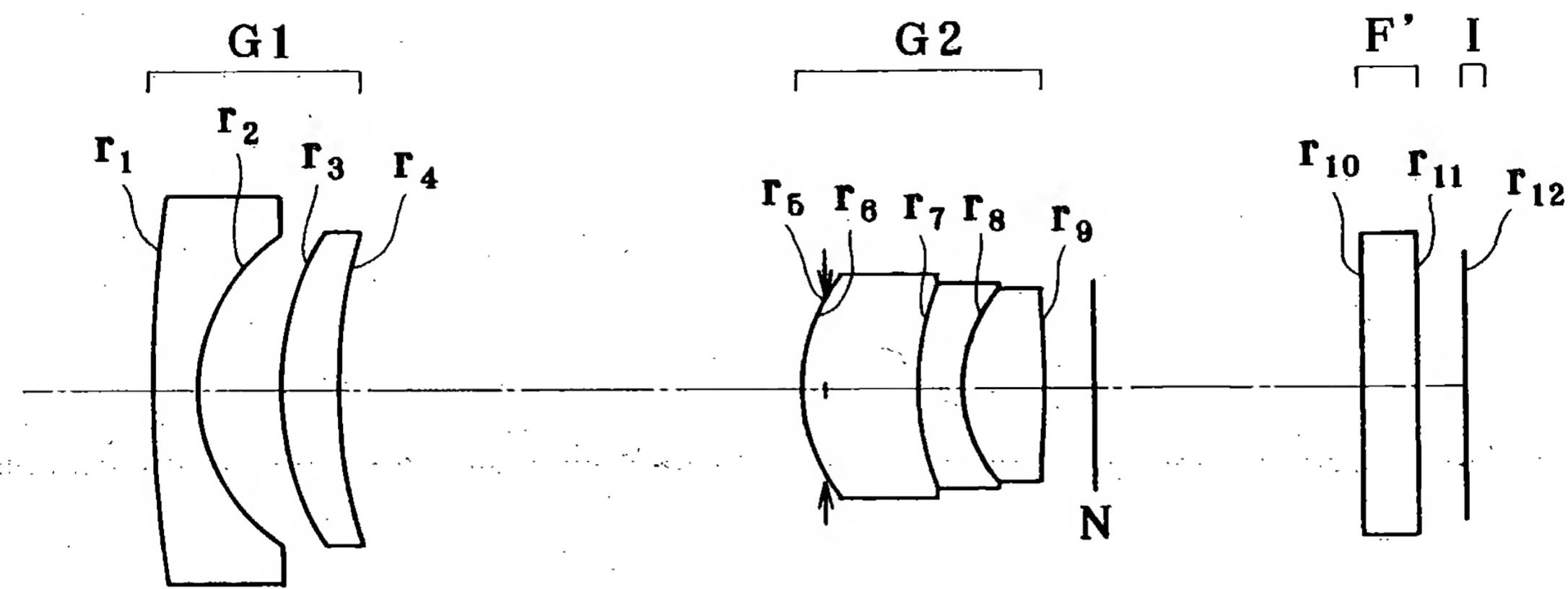


FIG. 9(b)

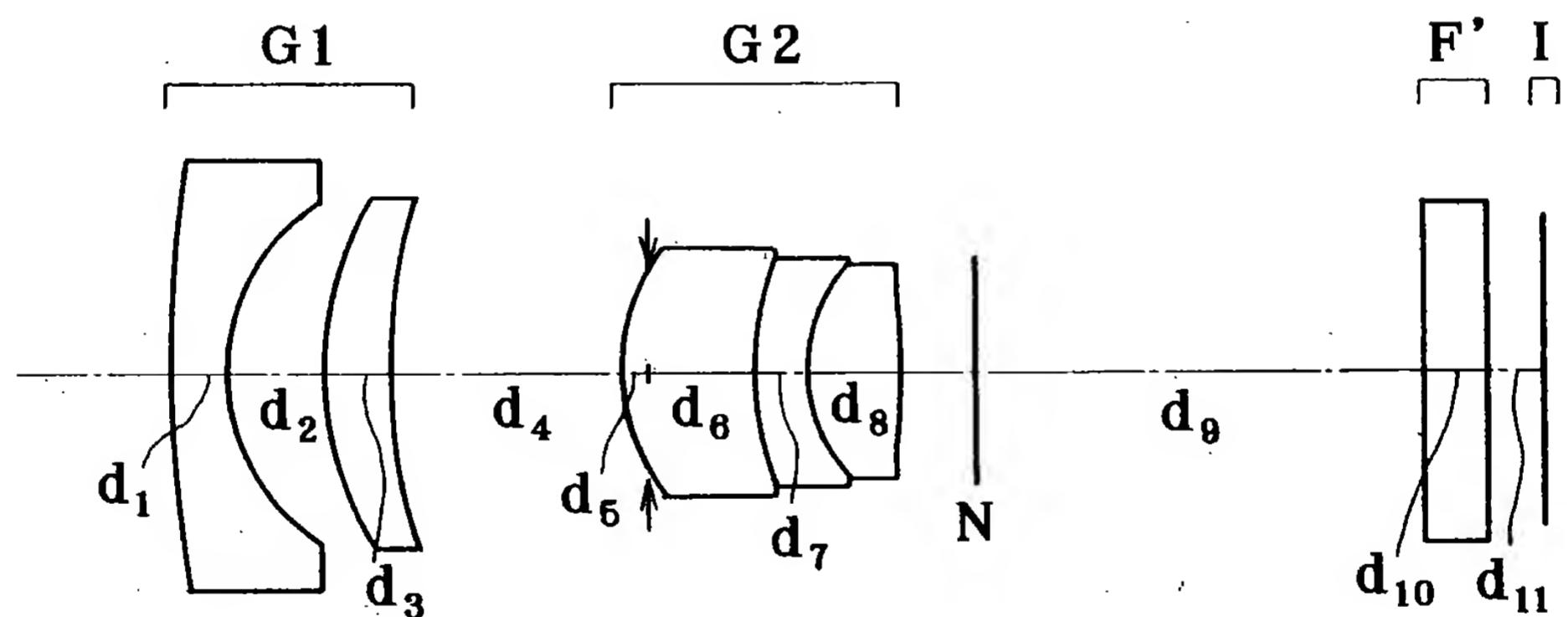


FIG. 9(c)

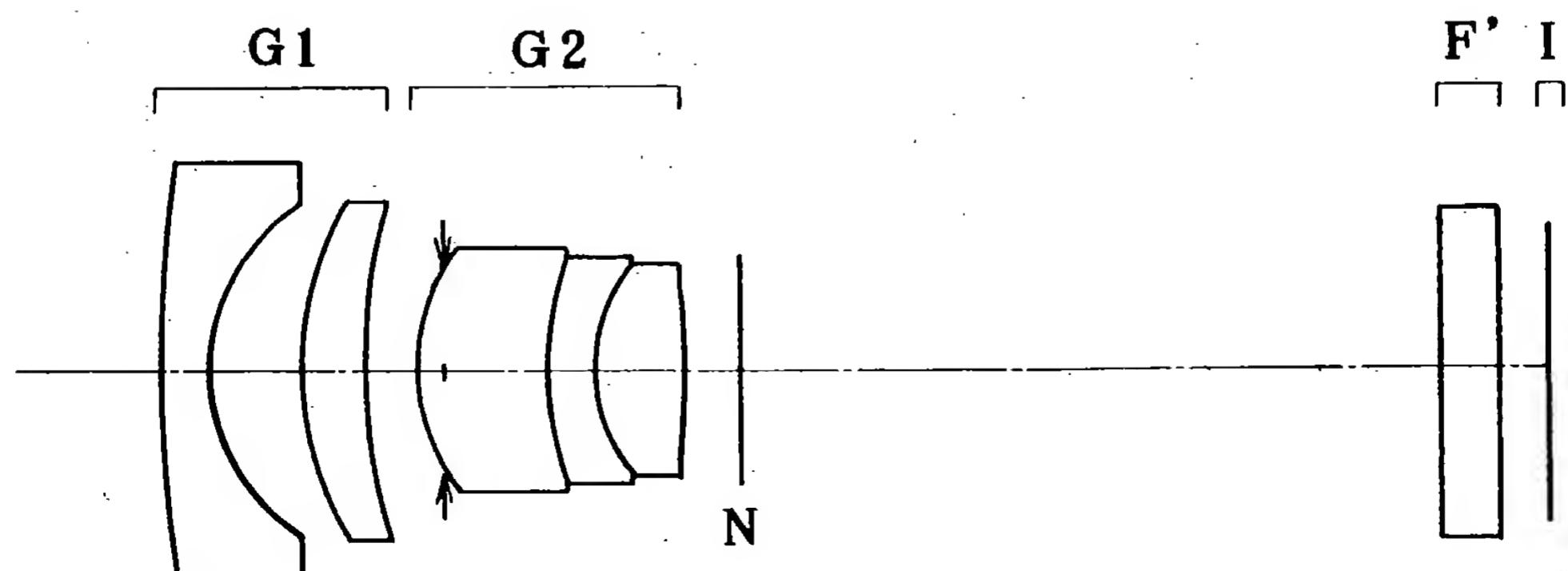


FIG. 10(a)

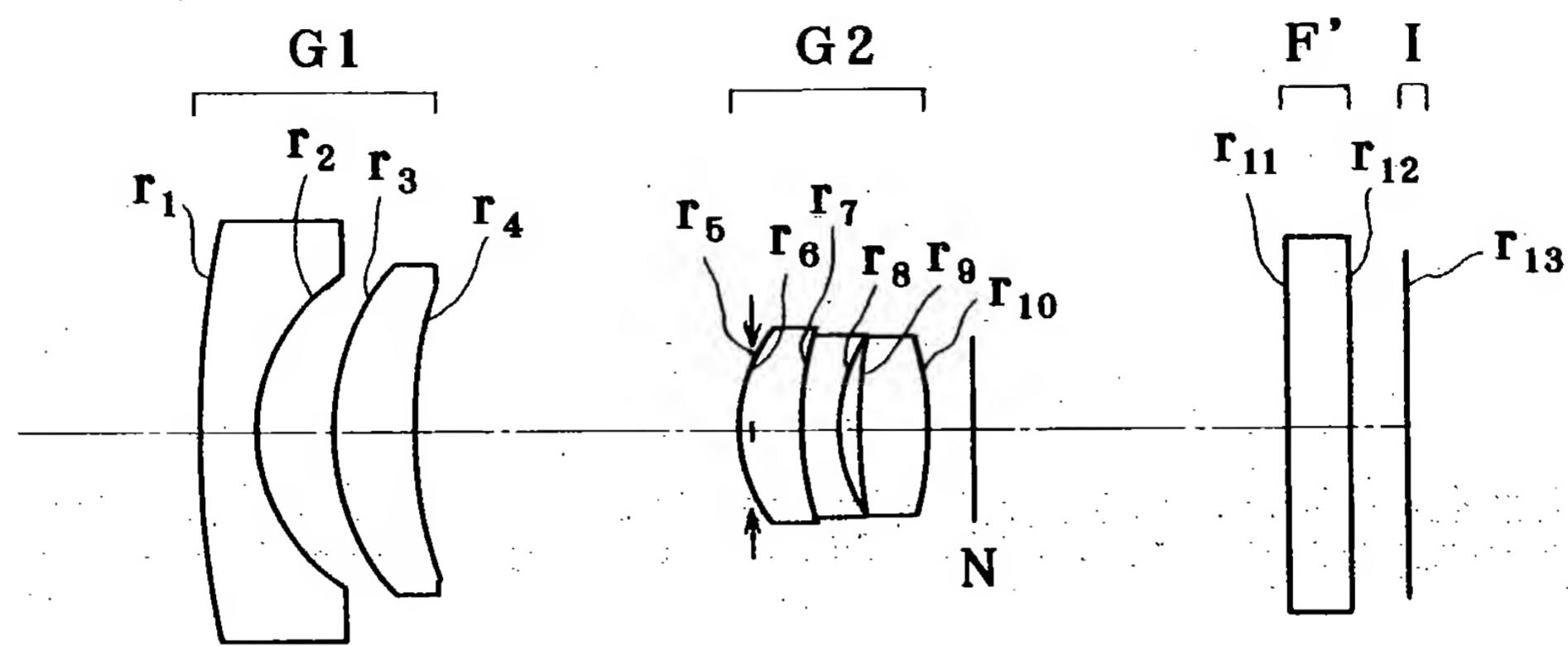


FIG. 10(b)

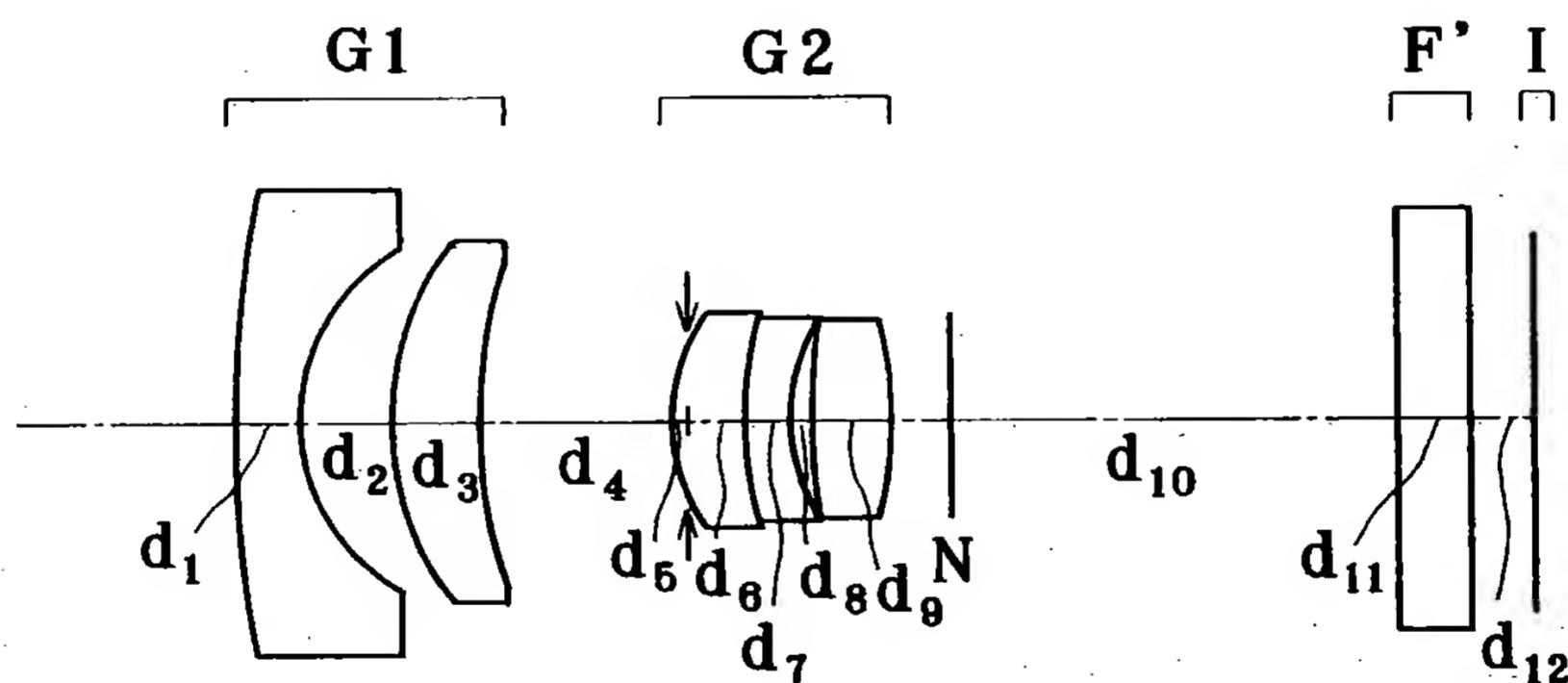


FIG. 10(c)

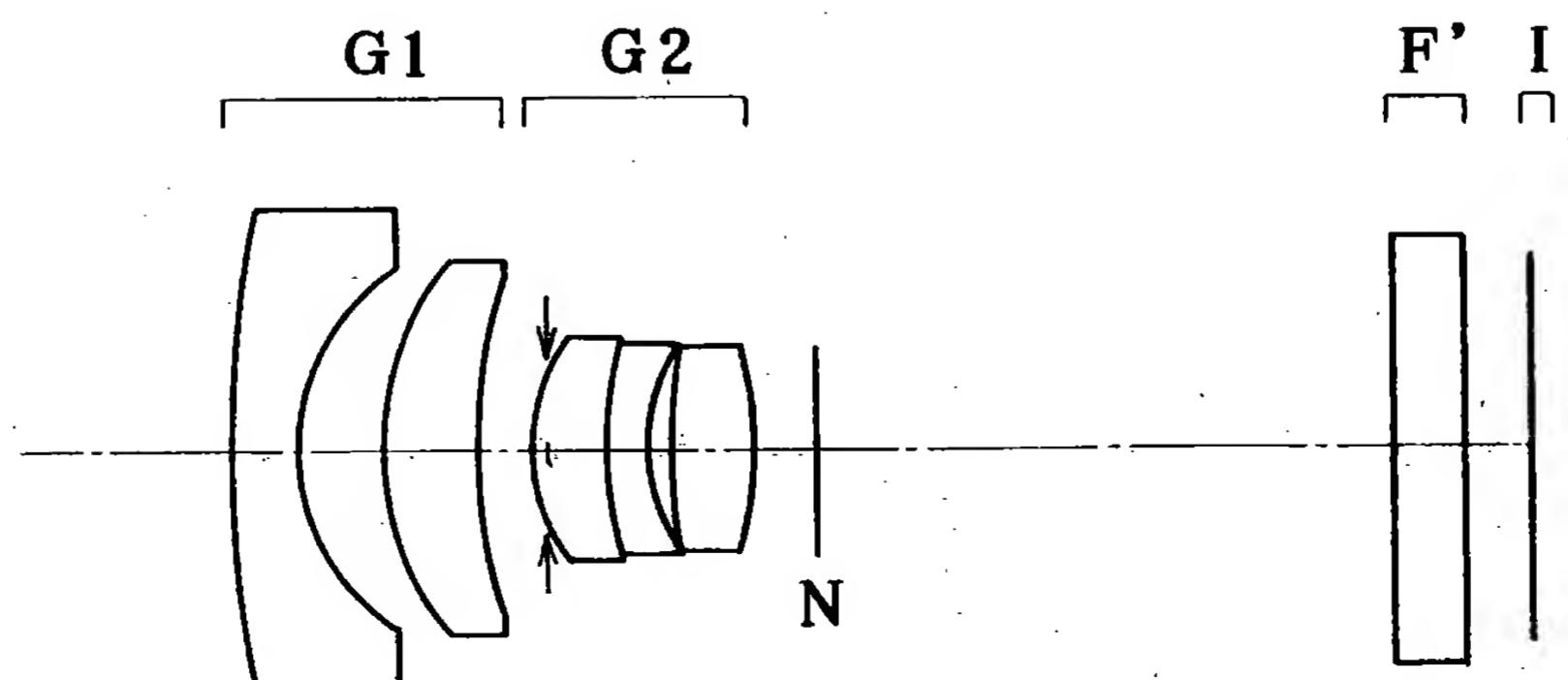


FIG. 11(a)

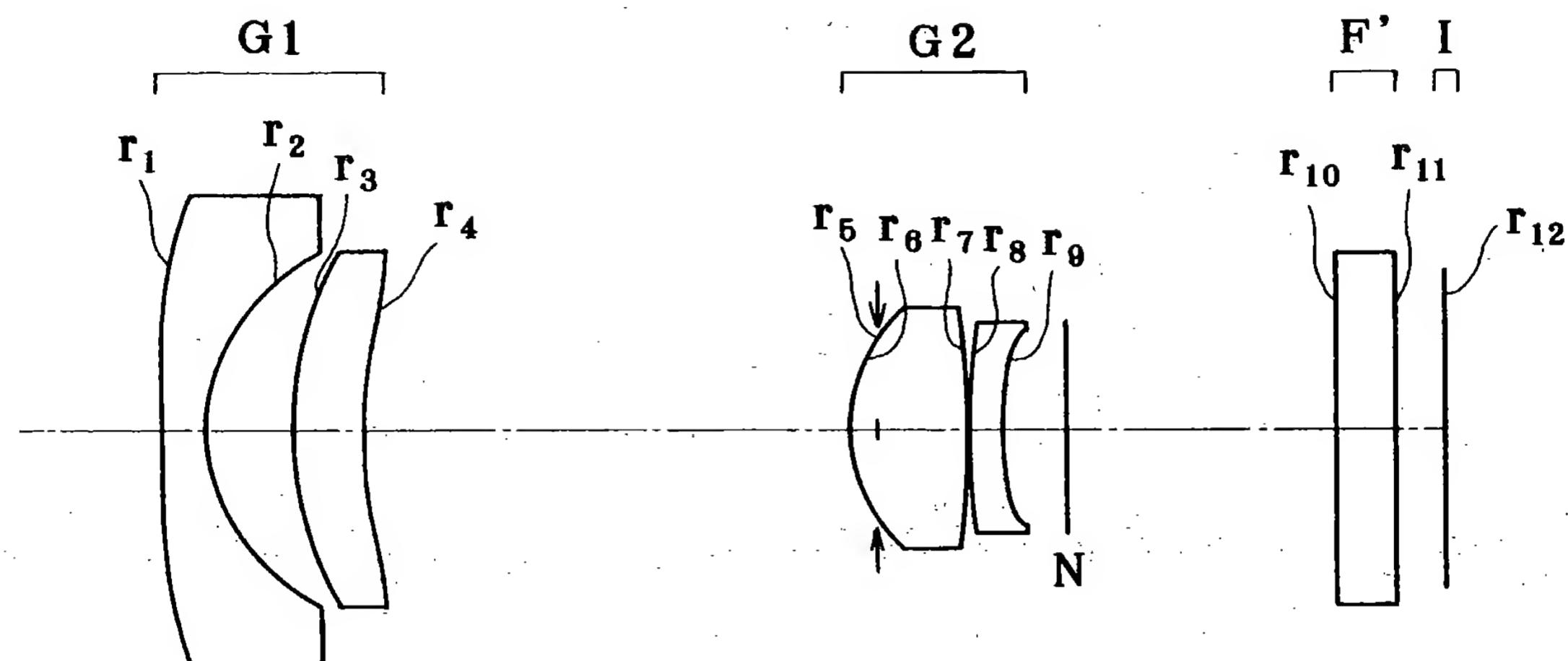


FIG. 11(b)

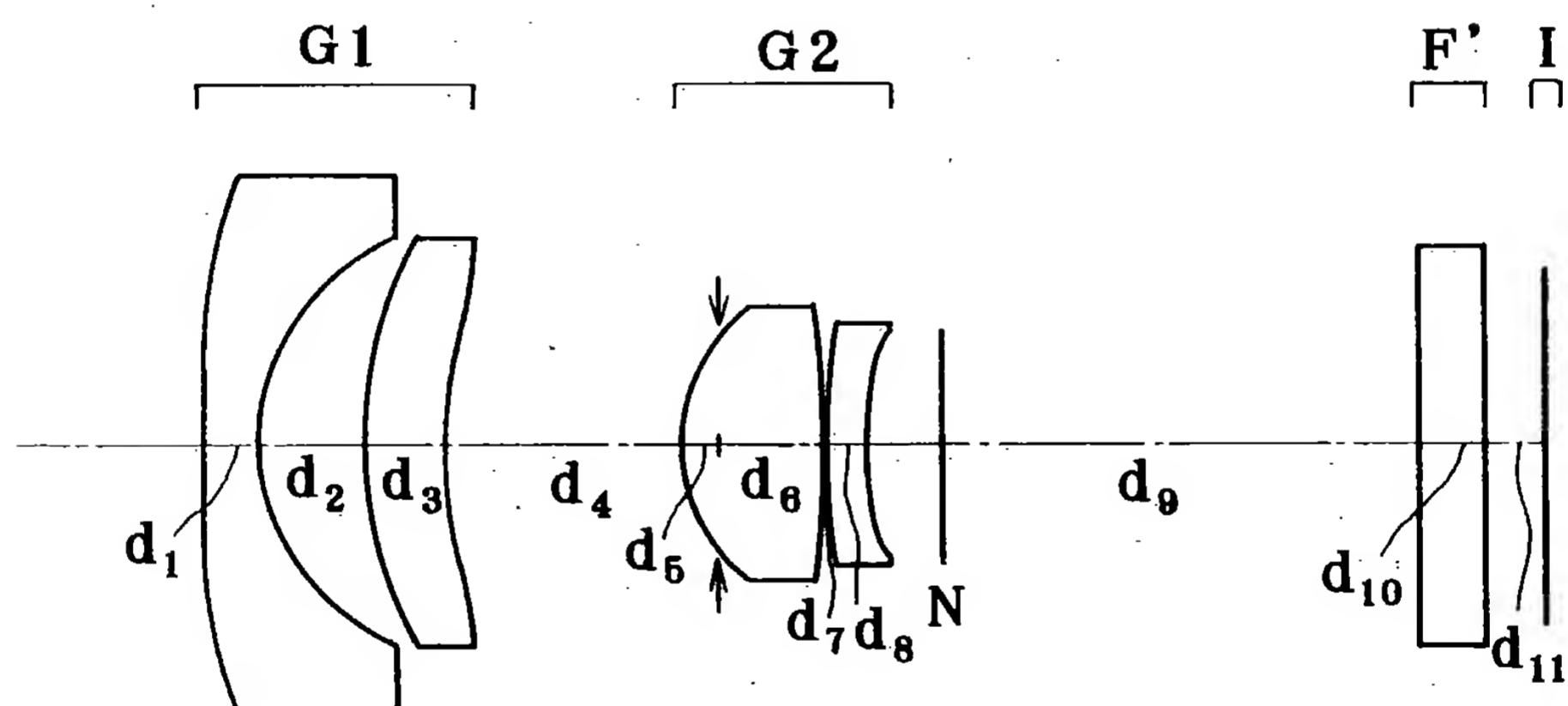


FIG. 11(c)

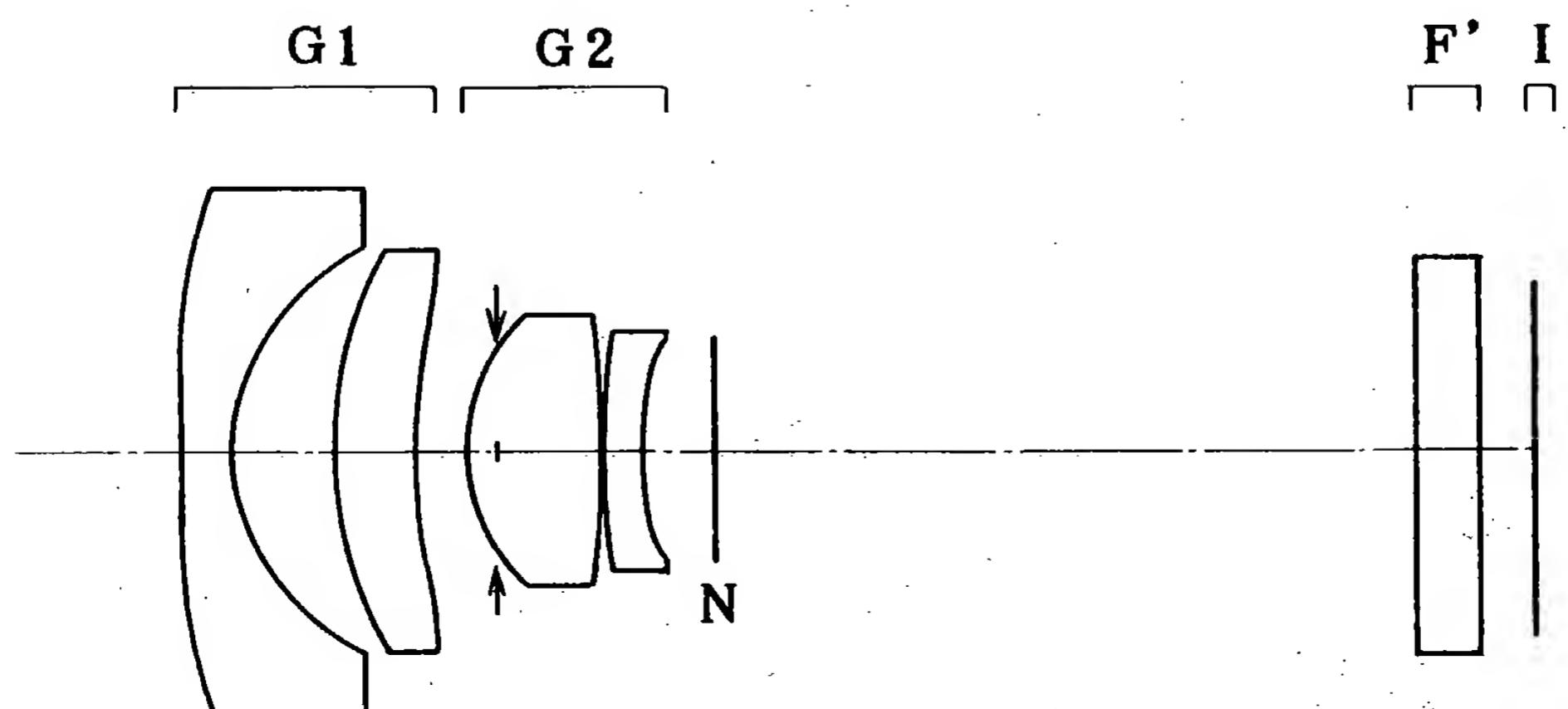


FIG. 12(a)

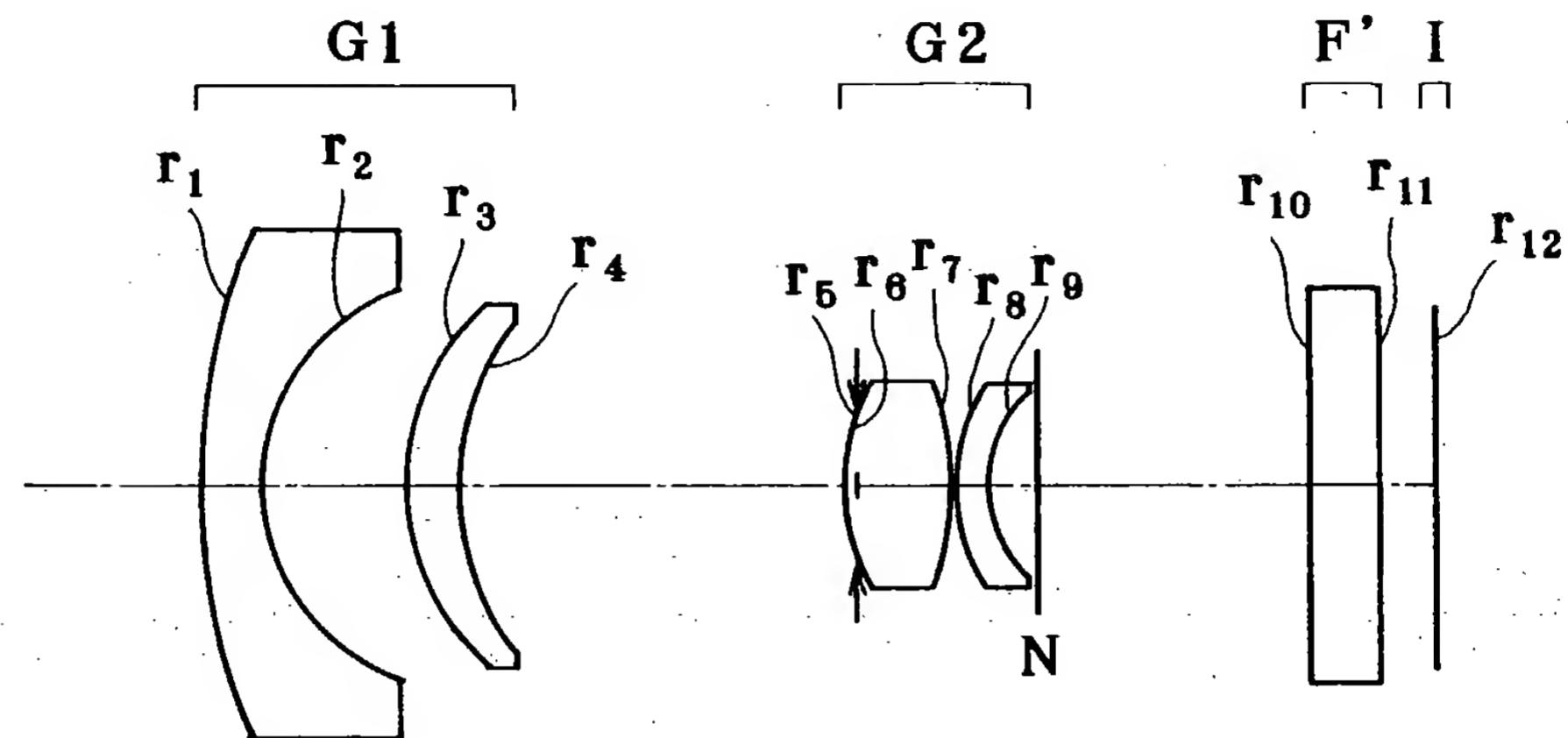


FIG. 12(b)

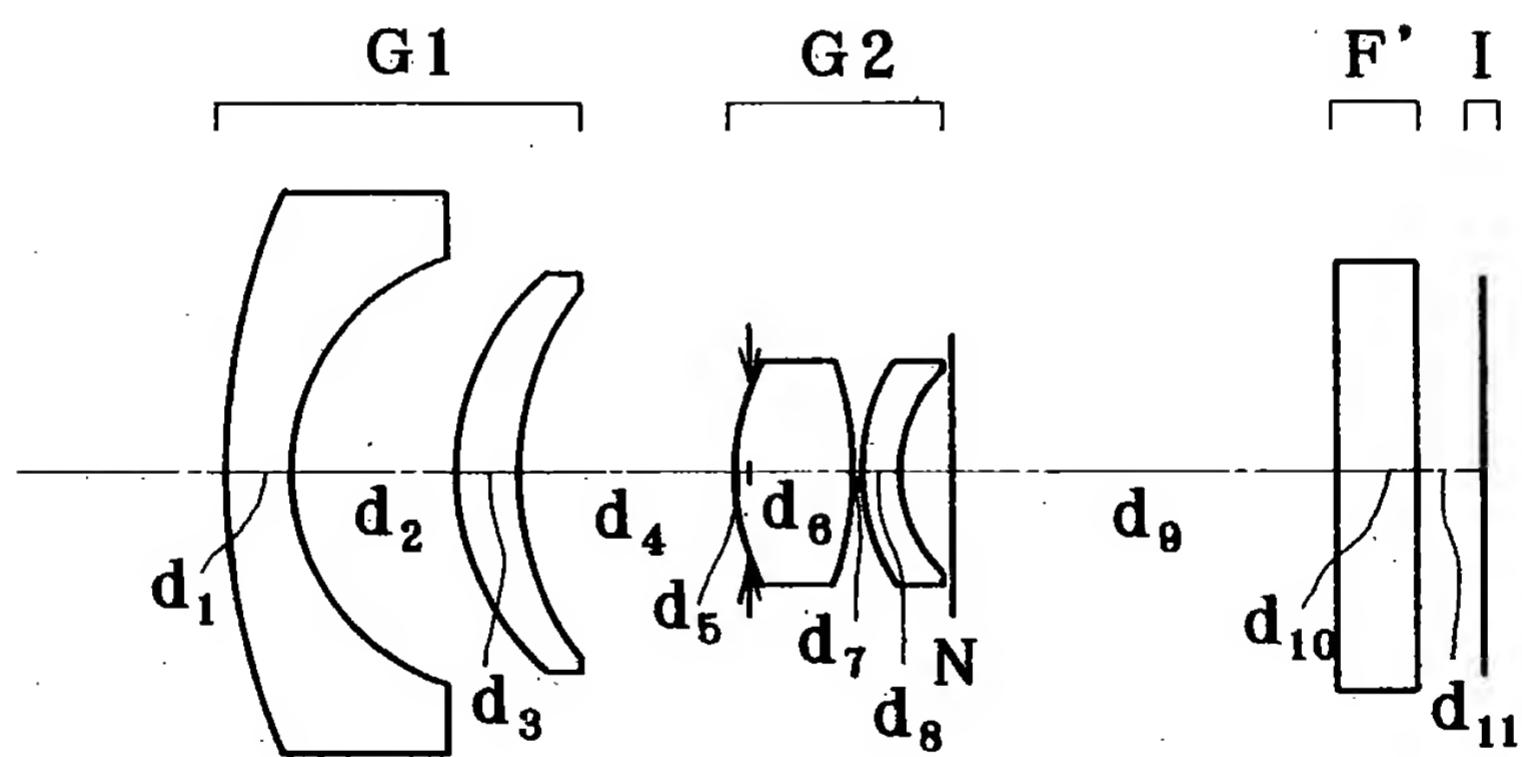


FIG. 12(c)

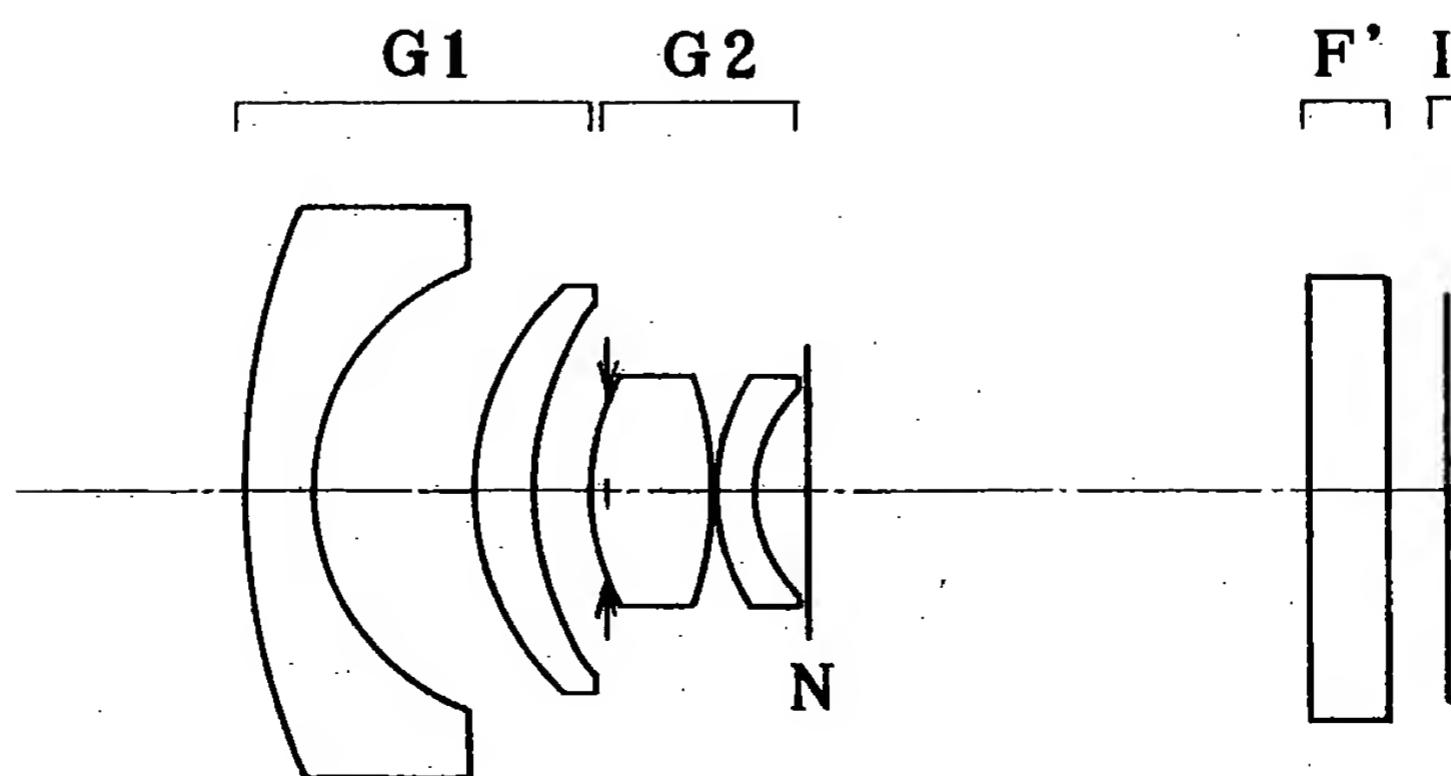
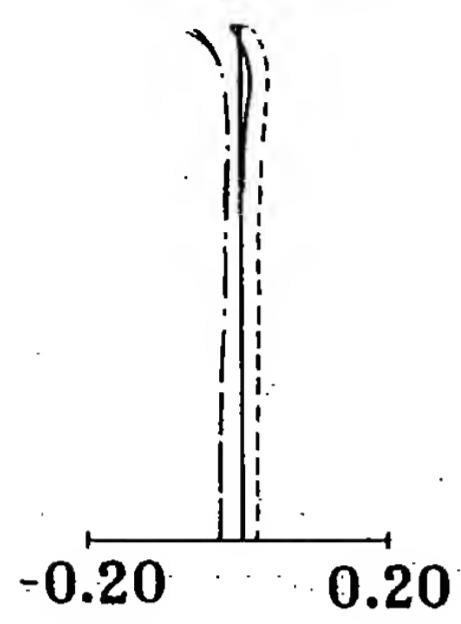
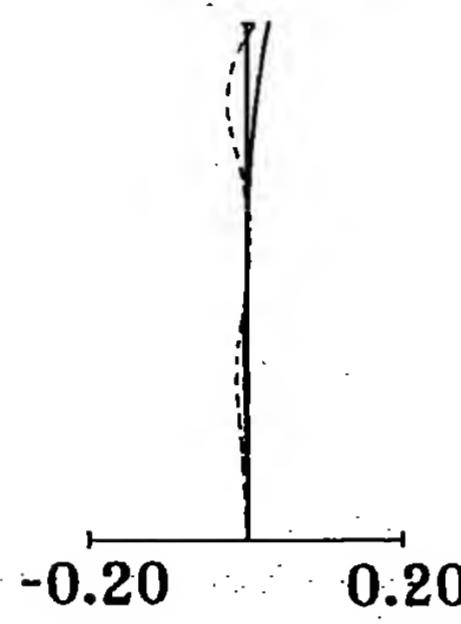


FIG. 13(a)

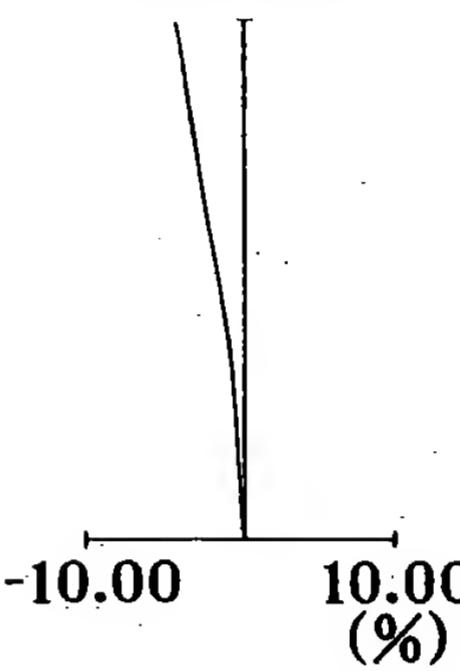
Spherical aberrations  
FNO. 2.84



Astigmatism  
 $\omega$  31.24



Distortion  
 $\omega$  31.24



Chromatic aberration  
of magnification  
 $\omega$  31.24

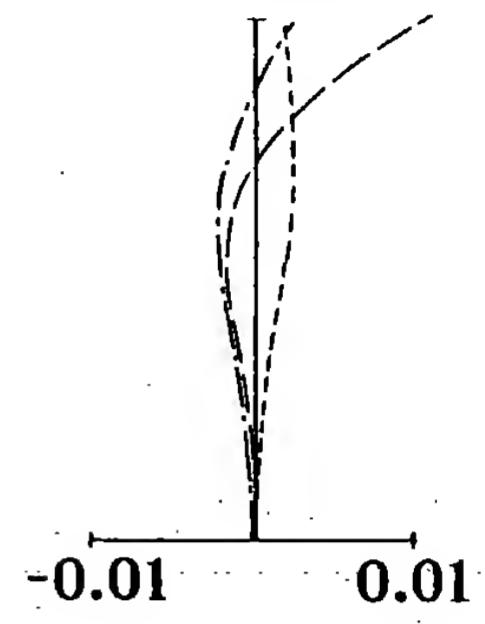
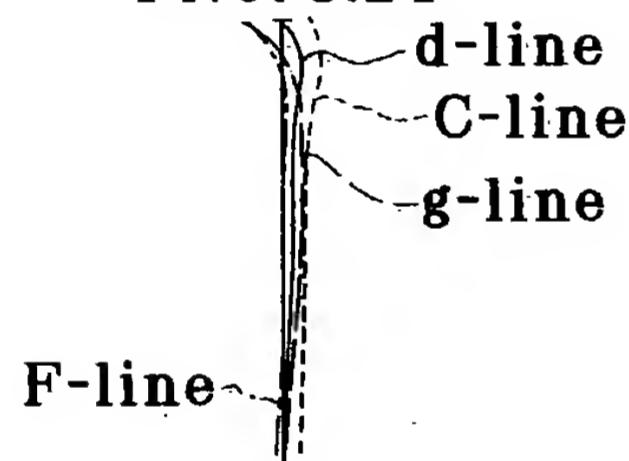
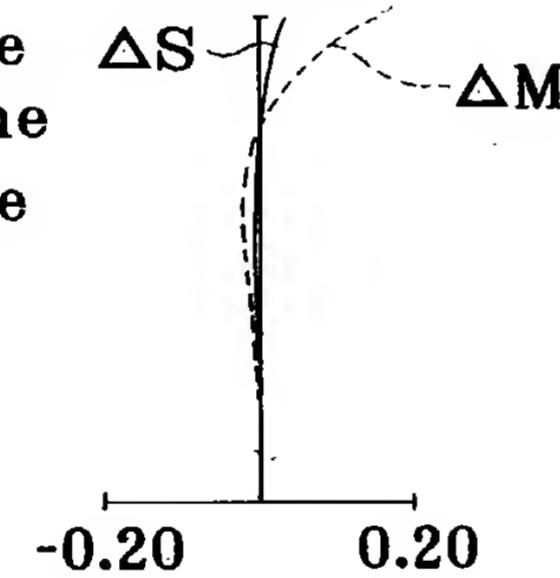


FIG. 13(b)

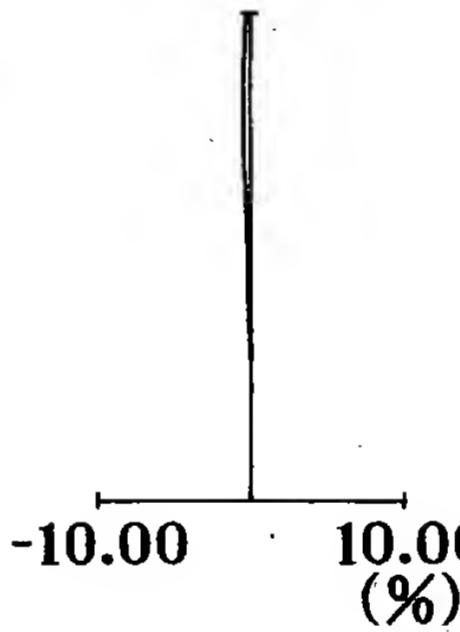
Spherical  
aberrations  
FNO. 3.24



Astigmatism  
 $\omega$  23.66



Distortion  
 $\omega$  23.66



Chromatic aberration  
of magnification  
 $\omega$  23.66

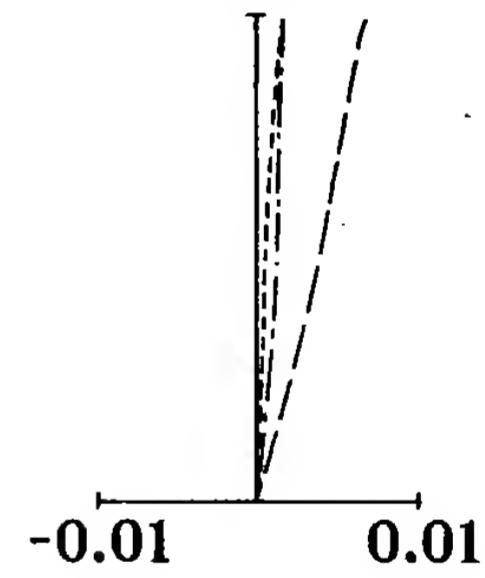
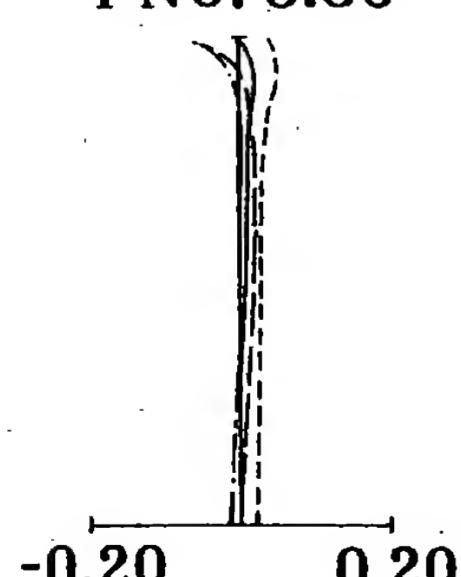
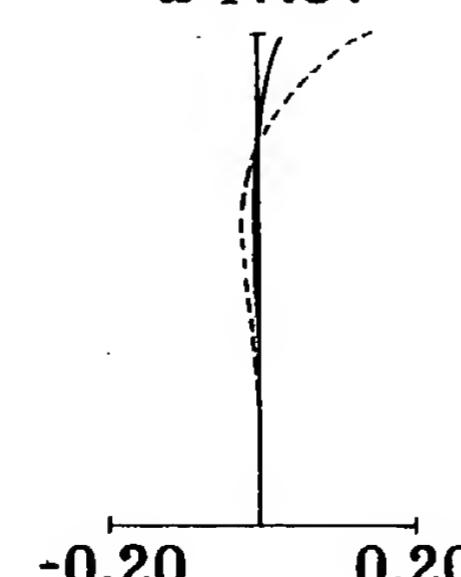


FIG. 13(c)

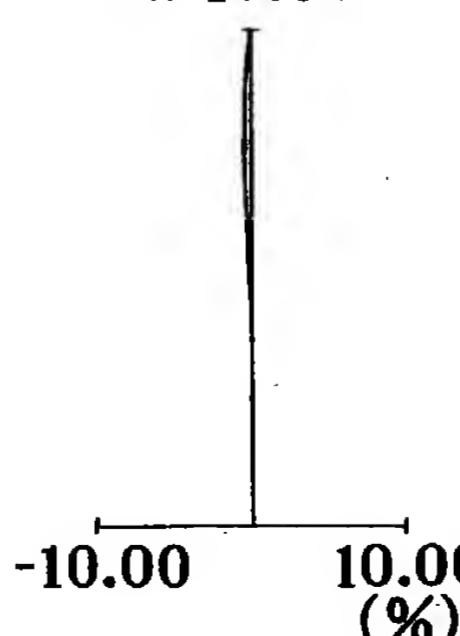
Spherical  
aberrations  
FNO. 3.86



Astigmatism  
 $\omega$  17.37



Distortion  
 $\omega$  17.37



Chromatic aberration  
of magnification  
 $\omega$  17.37

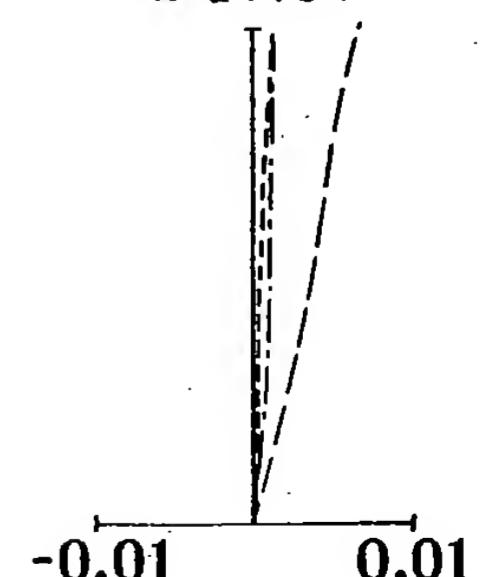
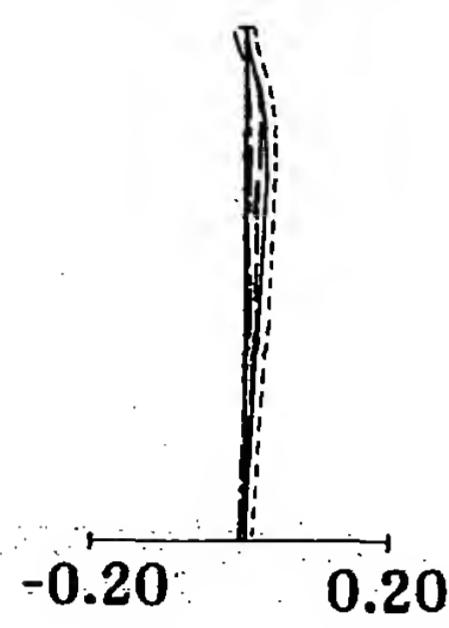
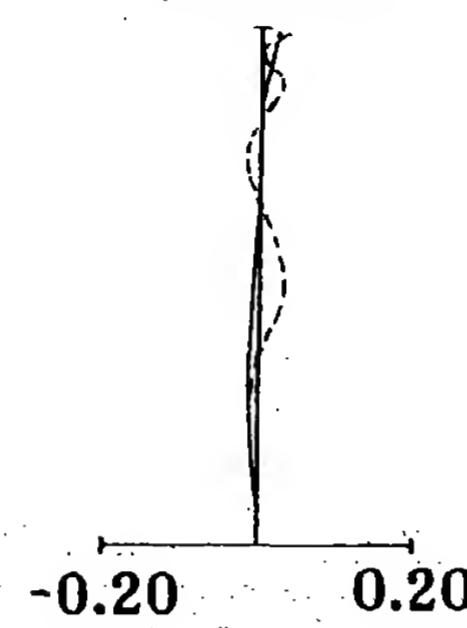


FIG. 14(a)

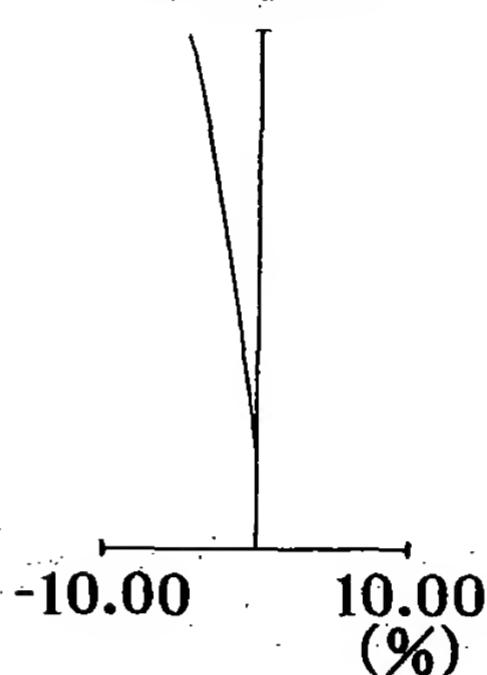
Spherical  
aberrations  
FNO. 2.84



Astigmatism  
 $\omega$  32.33



Distortion  
 $\omega$  32.33



Chromatic  
aberration  
of  
magnification  
 $\omega$  32.33

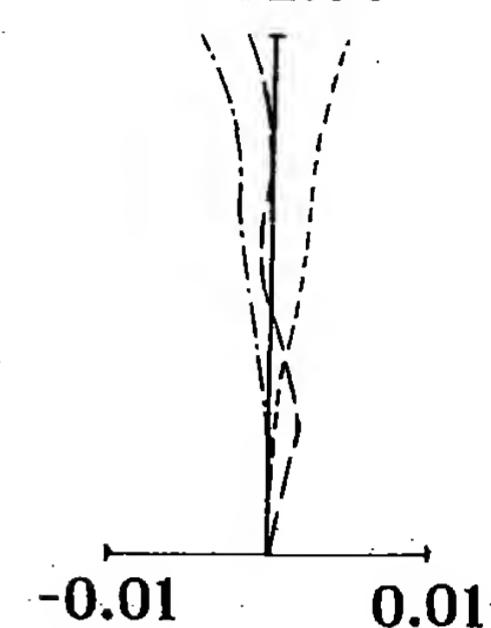
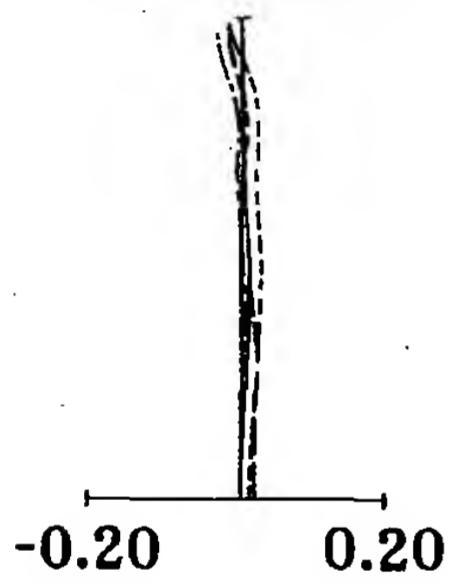
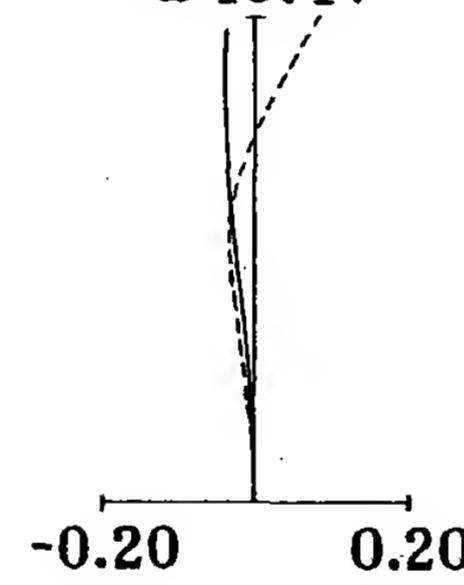


FIG. 14(b)

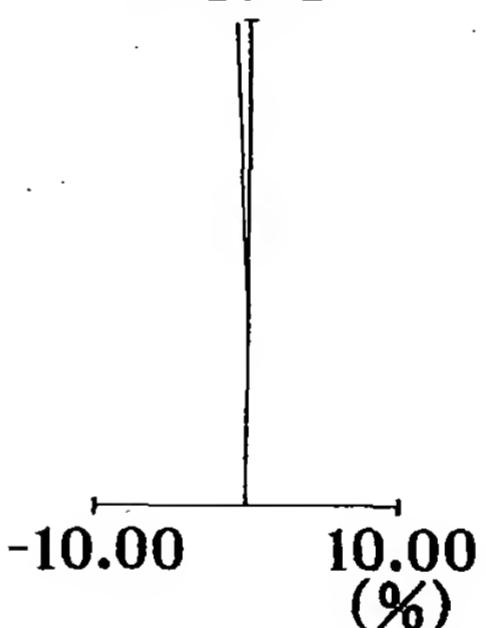
Spherical  
aberrations  
FNO. 3.49



Astigmatism  
 $\omega$  19.47



Distortion  
 $\omega$  19.47



Chromatic  
aberration  
of  
magnification  
 $\omega$  19.47

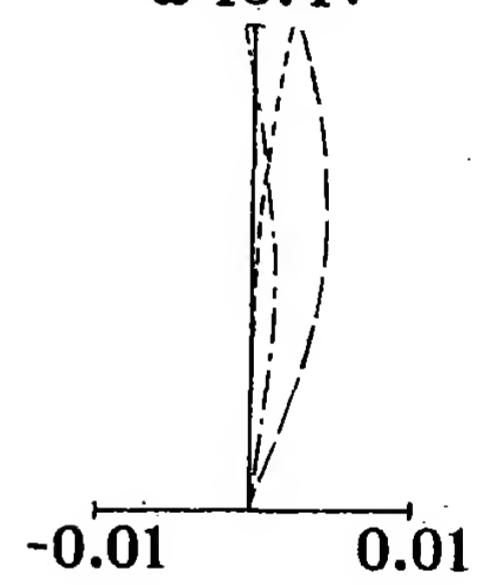
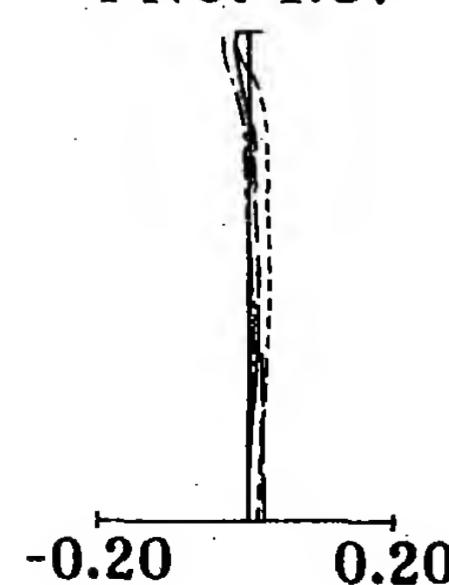
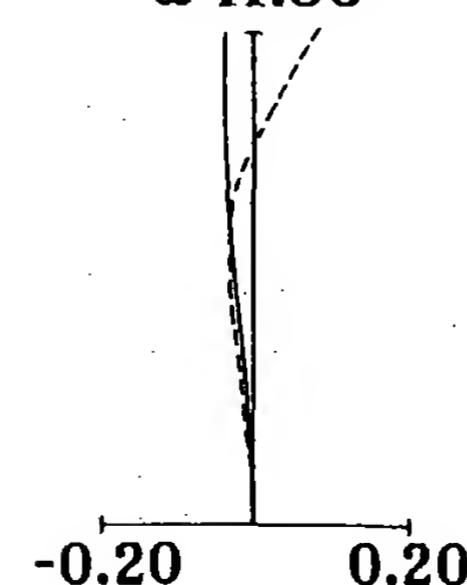


FIG. 14(c)

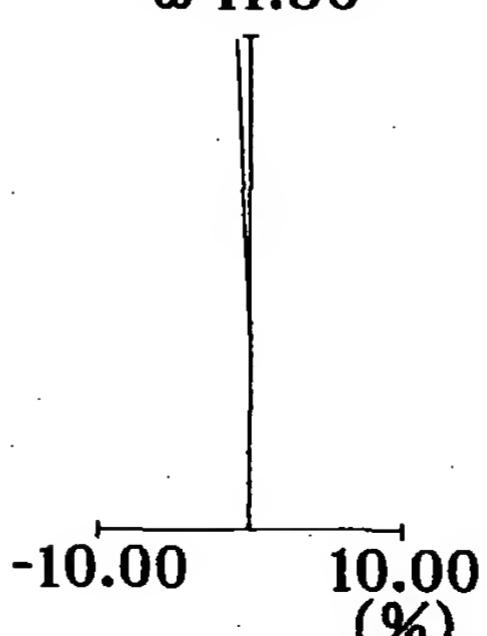
Spherical  
aberrations  
FNO. 4.67



Astigmatism  
 $\omega$  11.36



Distortion  
 $\omega$  11.36



Chromatic  
aberration  
of  
magnification  
 $\omega$  11.36

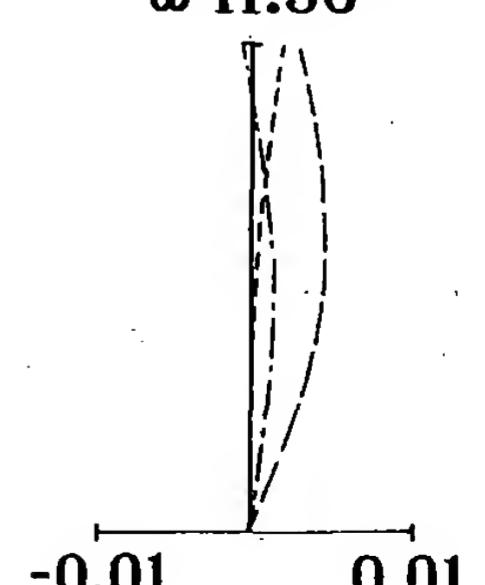


FIG. 15(a)

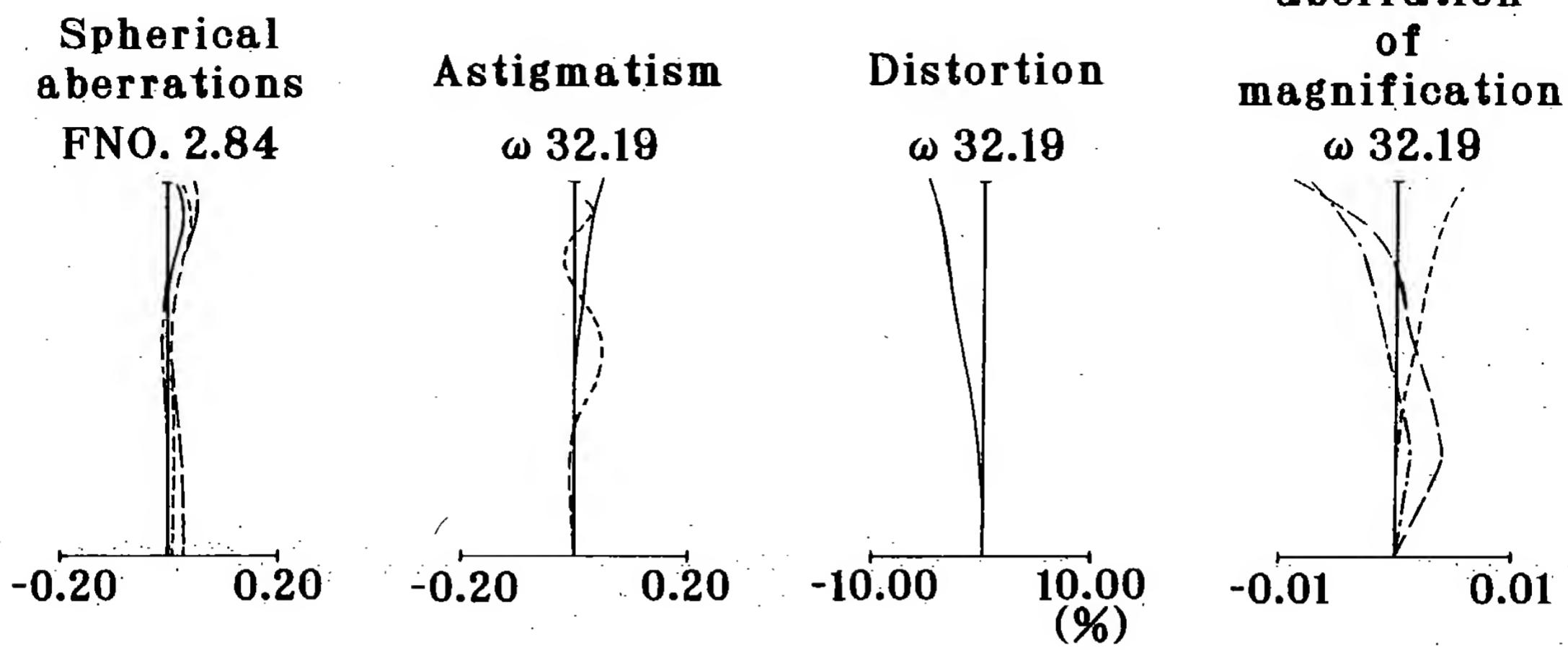


FIG. 15(b)

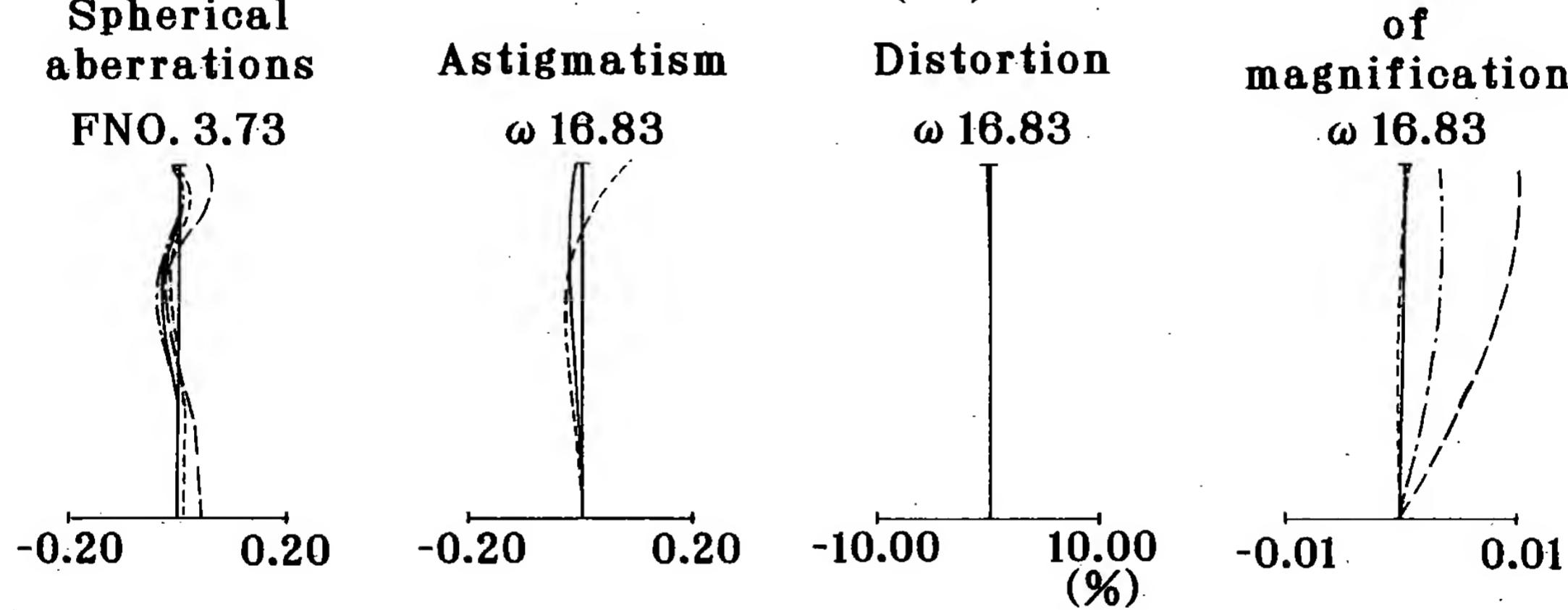


FIG. 15(c)

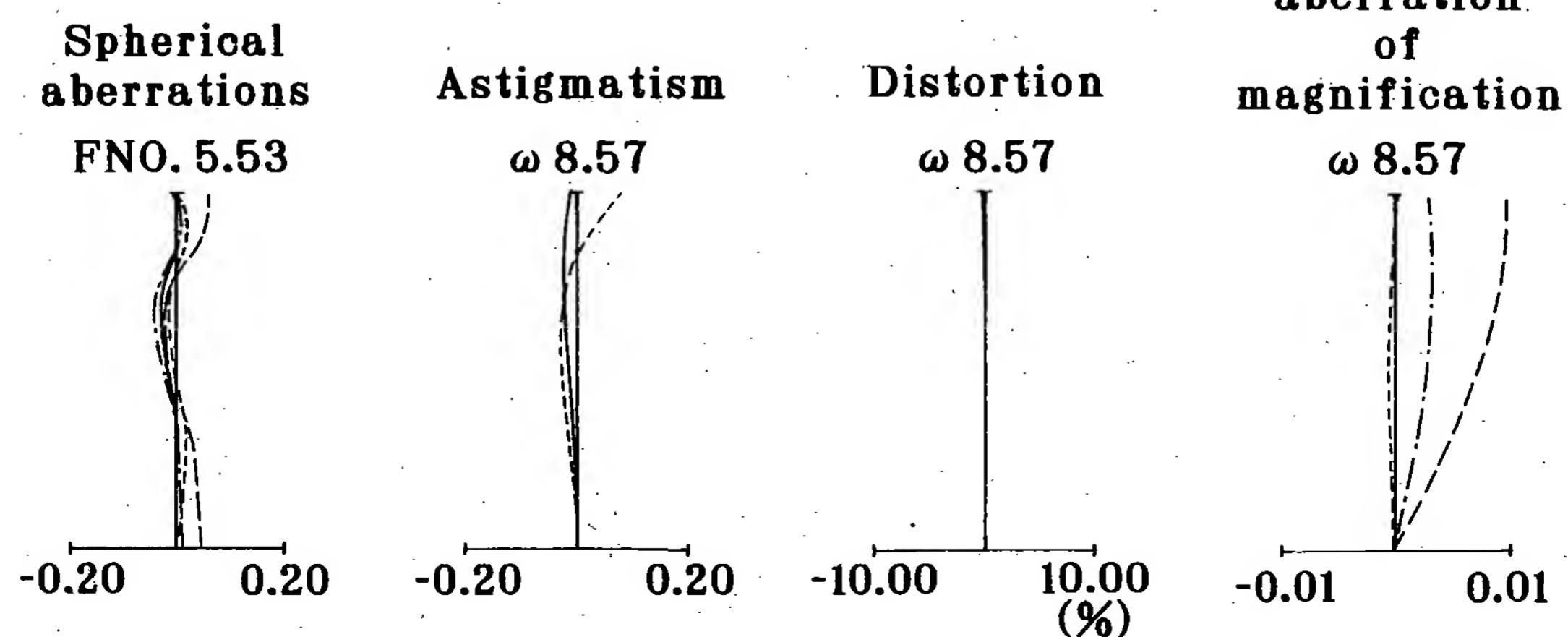


FIG. 16(a)

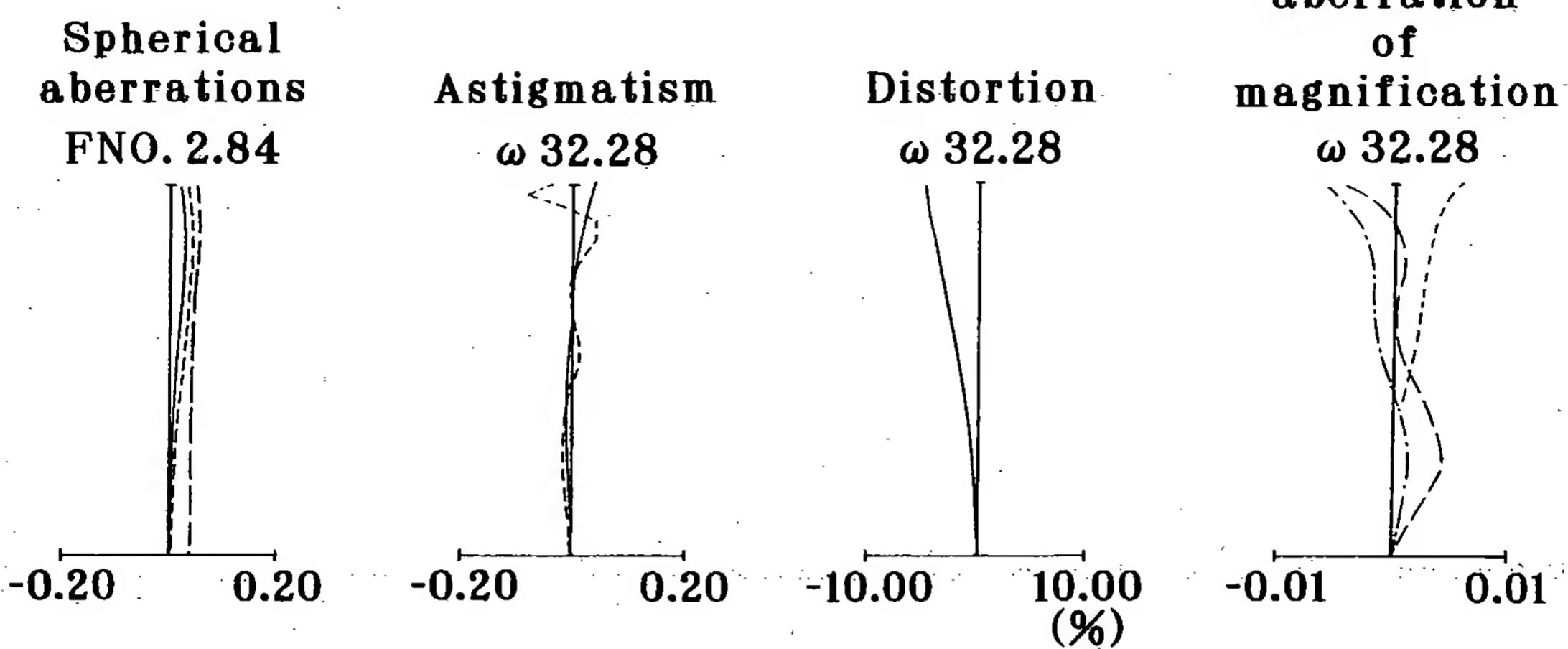


FIG. 16(b)

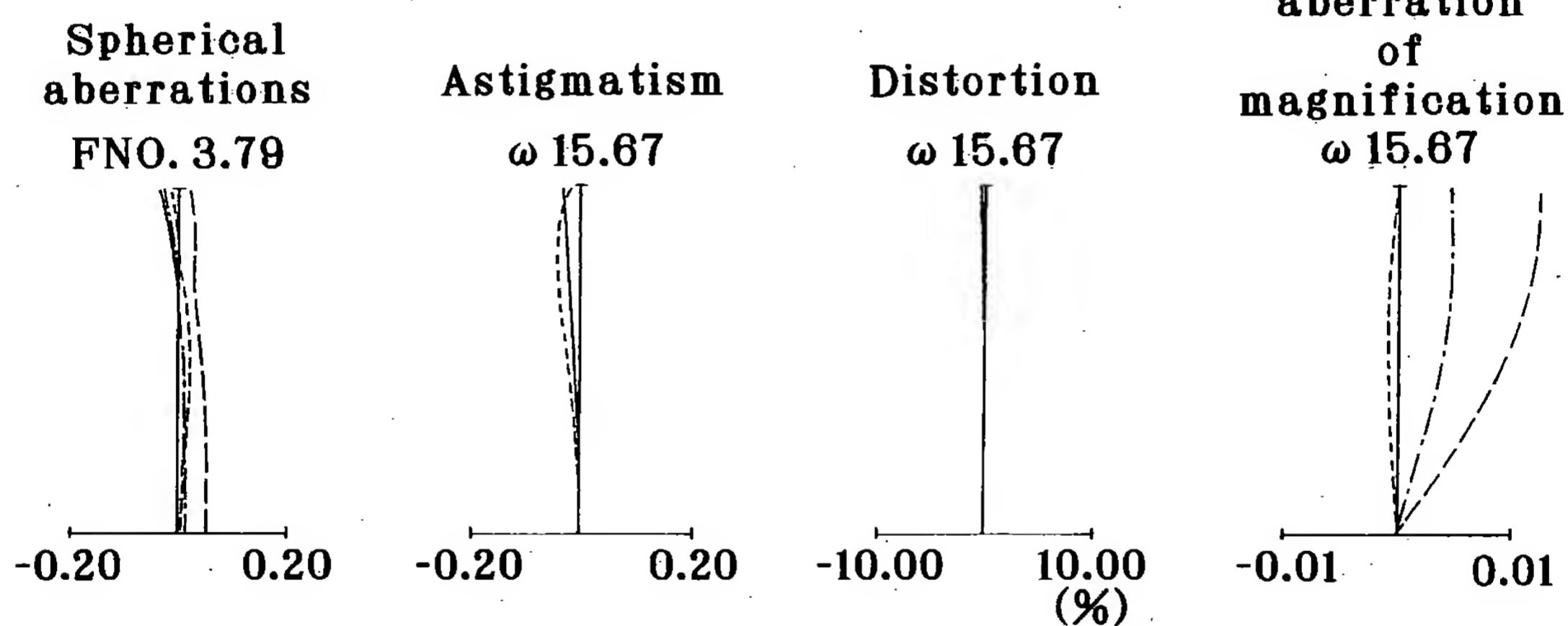


FIG. 16(c)

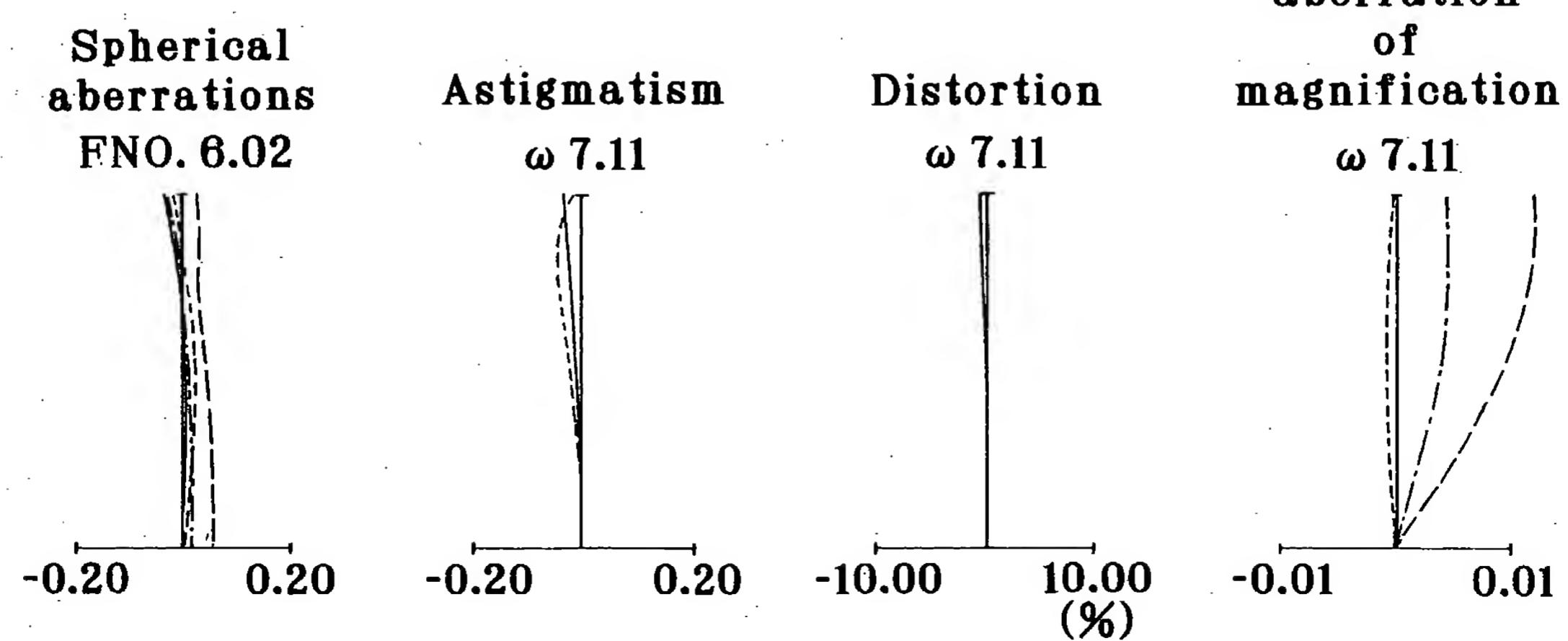


FIG. 17(a)

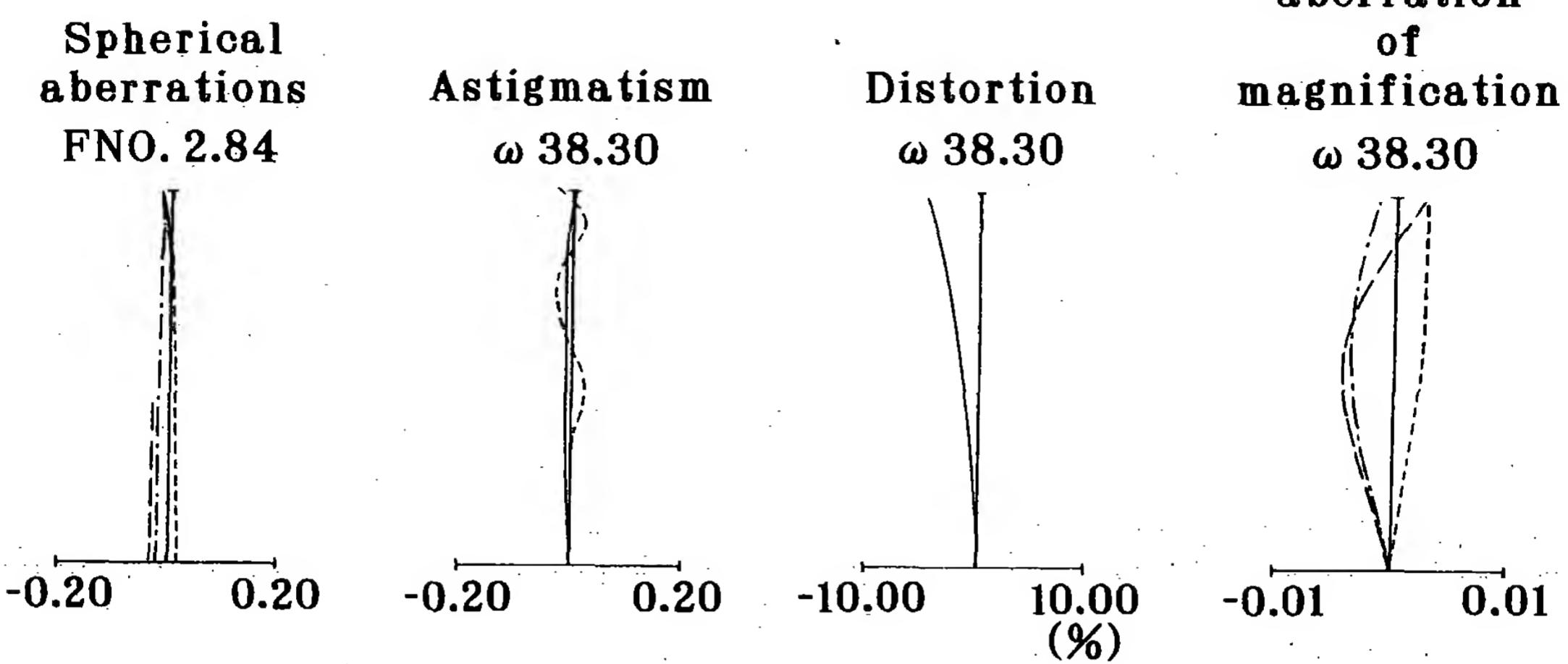


FIG. 17(b)

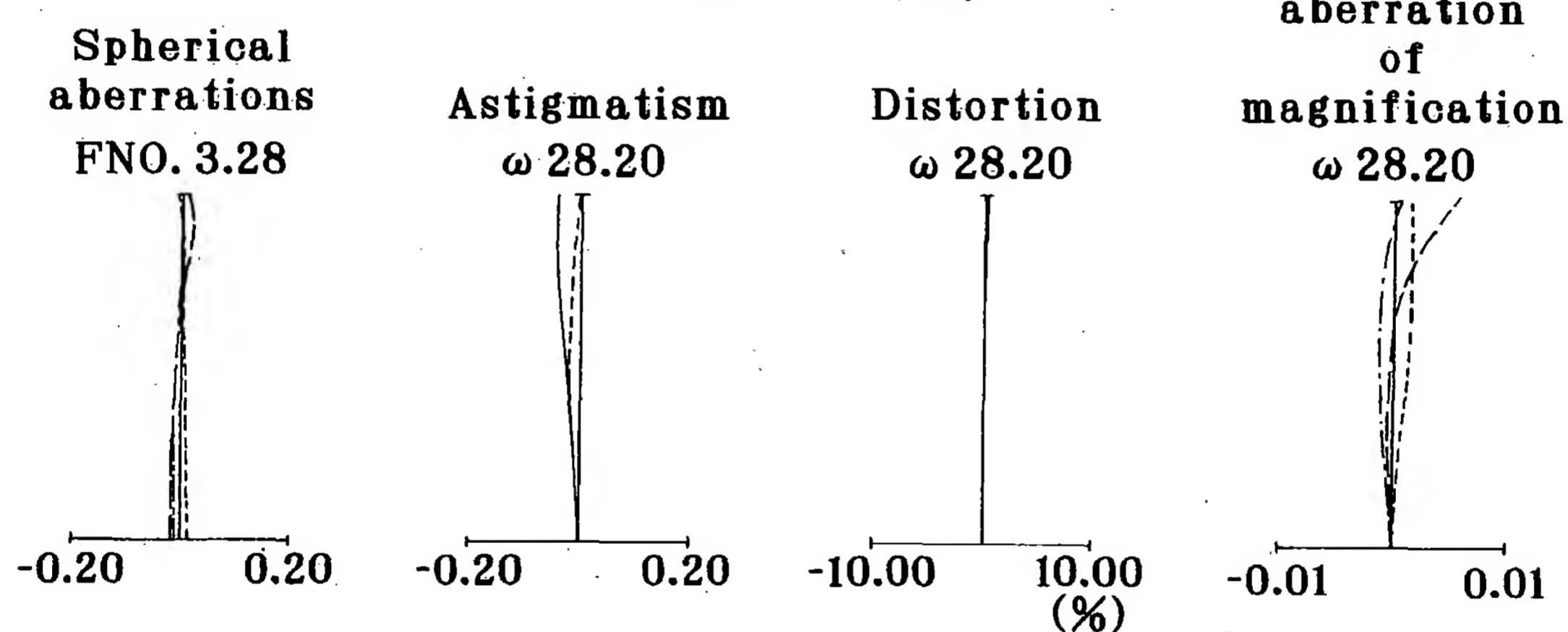


FIG. 17(c)

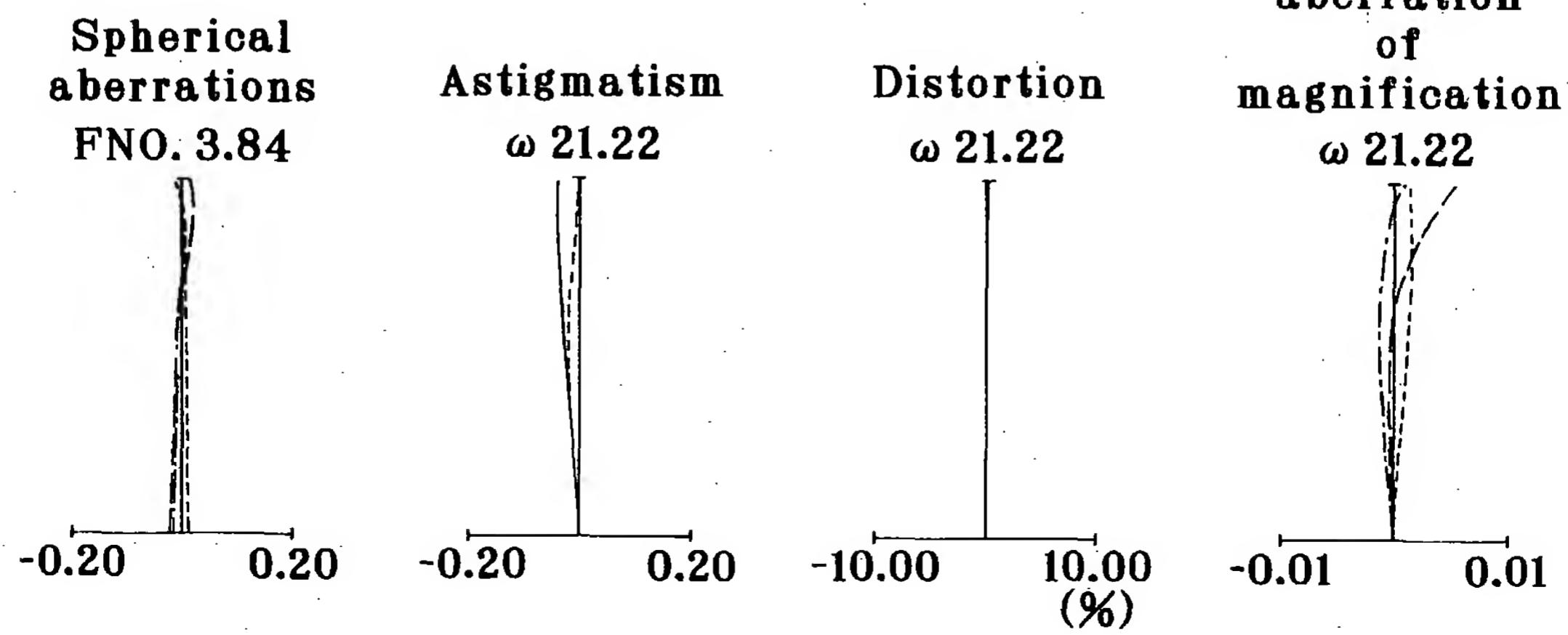
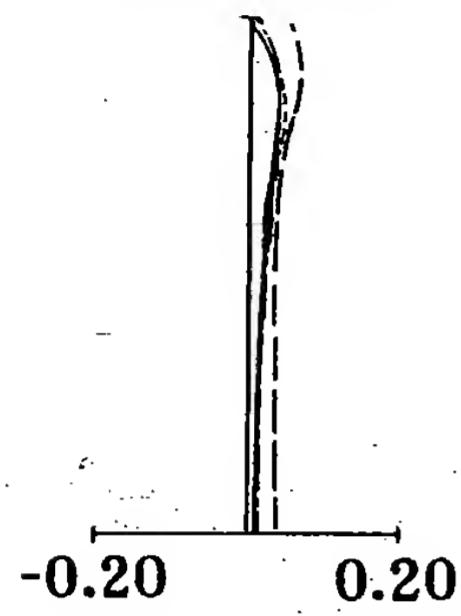
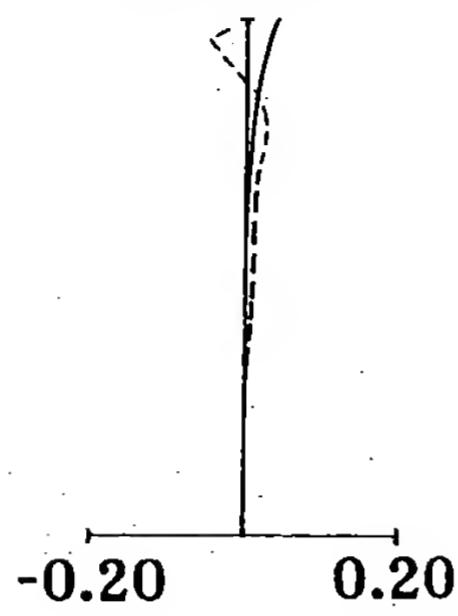


FIG. 18(a)

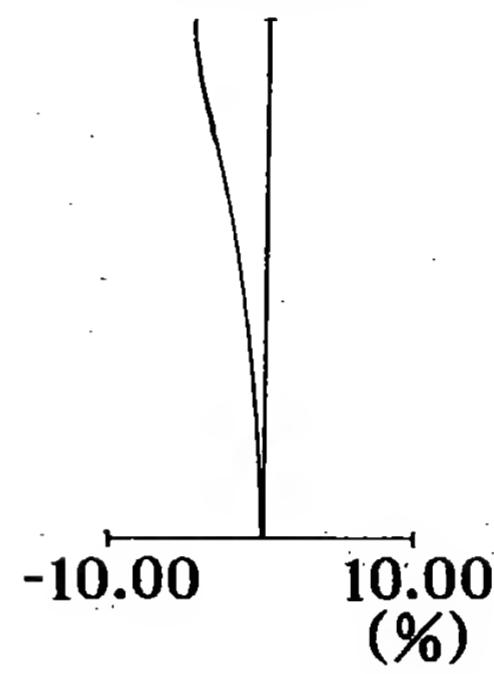
Spherical aberrations  
FNO. 2.84



Astigmatism  
 $\omega$  38.47



Distortion  
 $\omega$  38.47



Chromatic aberration  
of magnification  
 $\omega$  38.47

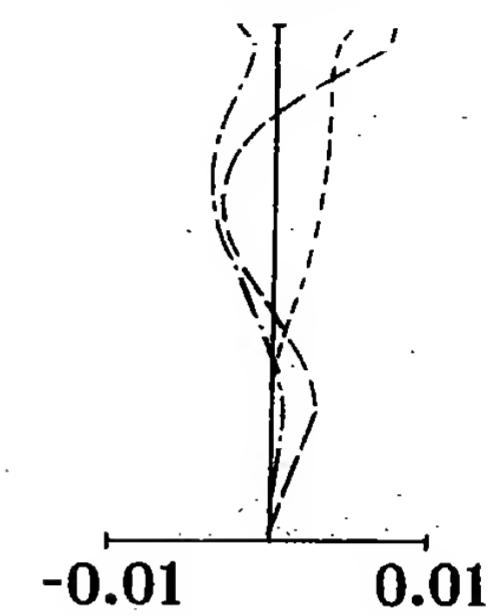
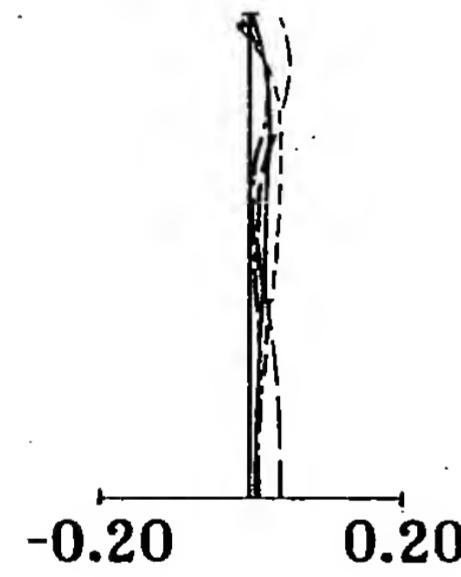
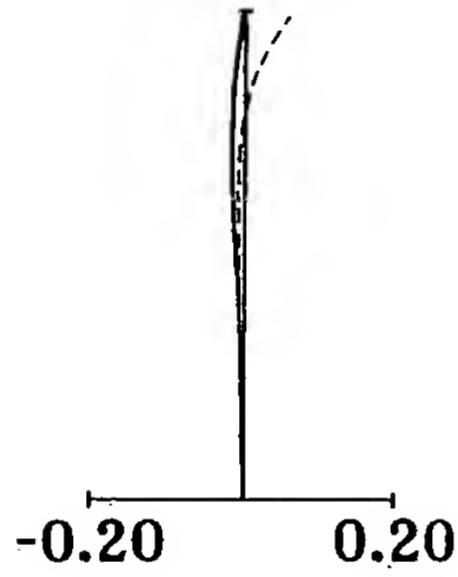


FIG. 18(b)

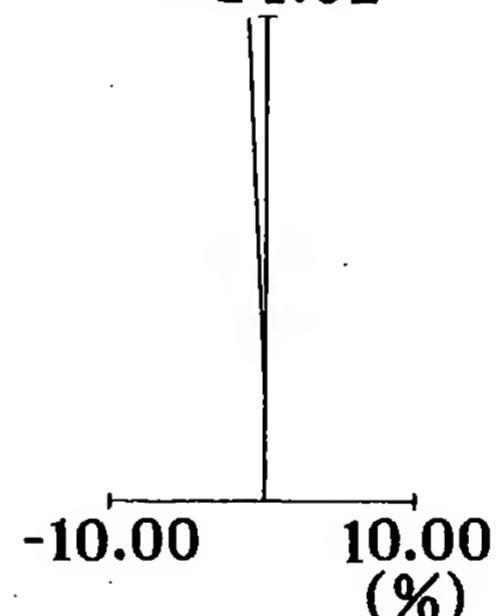
Spherical aberrations  
FNO. 3.42



Astigmatism  
 $\omega$  24.02



Distortion  
 $\omega$  24.02



Chromatic aberration  
of magnification  
 $\omega$  24.02

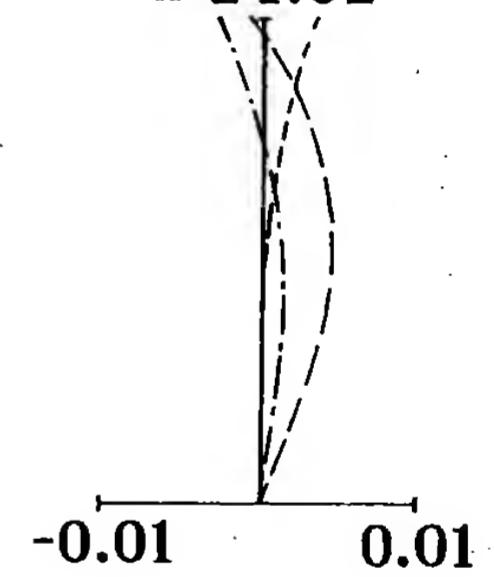
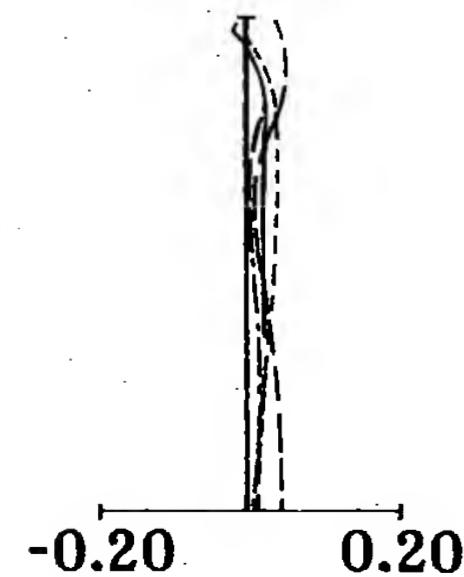
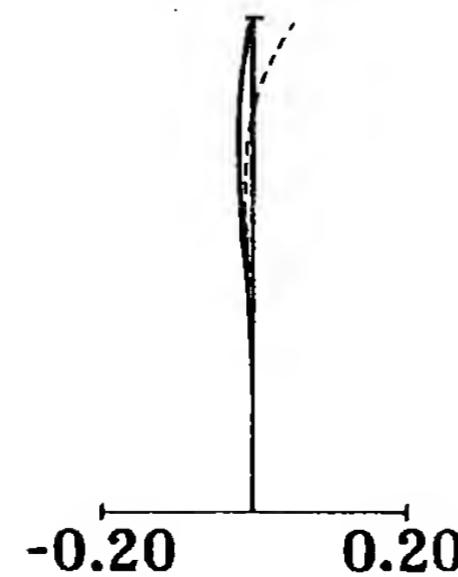


FIG. 18(c)

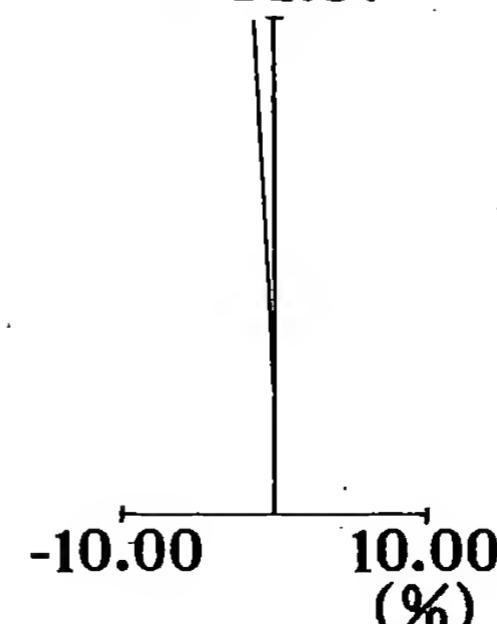
Spherical aberrations  
FNO. 4.40



Astigmatism  
 $\omega$  14.67



Distortion  
 $\omega$  14.67



Chromatic aberration  
of magnification  
 $\omega$  14.67

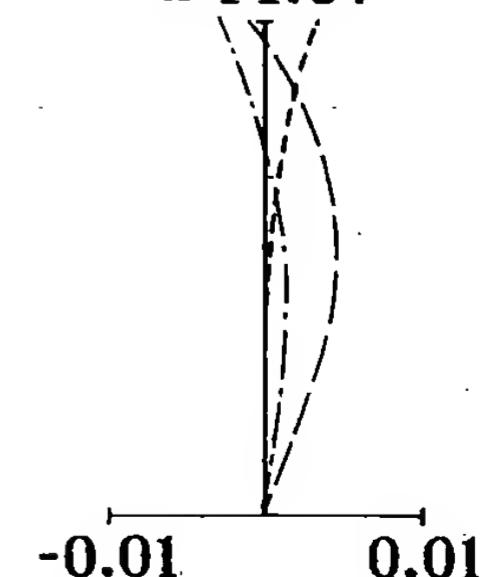


FIG. 19(a)

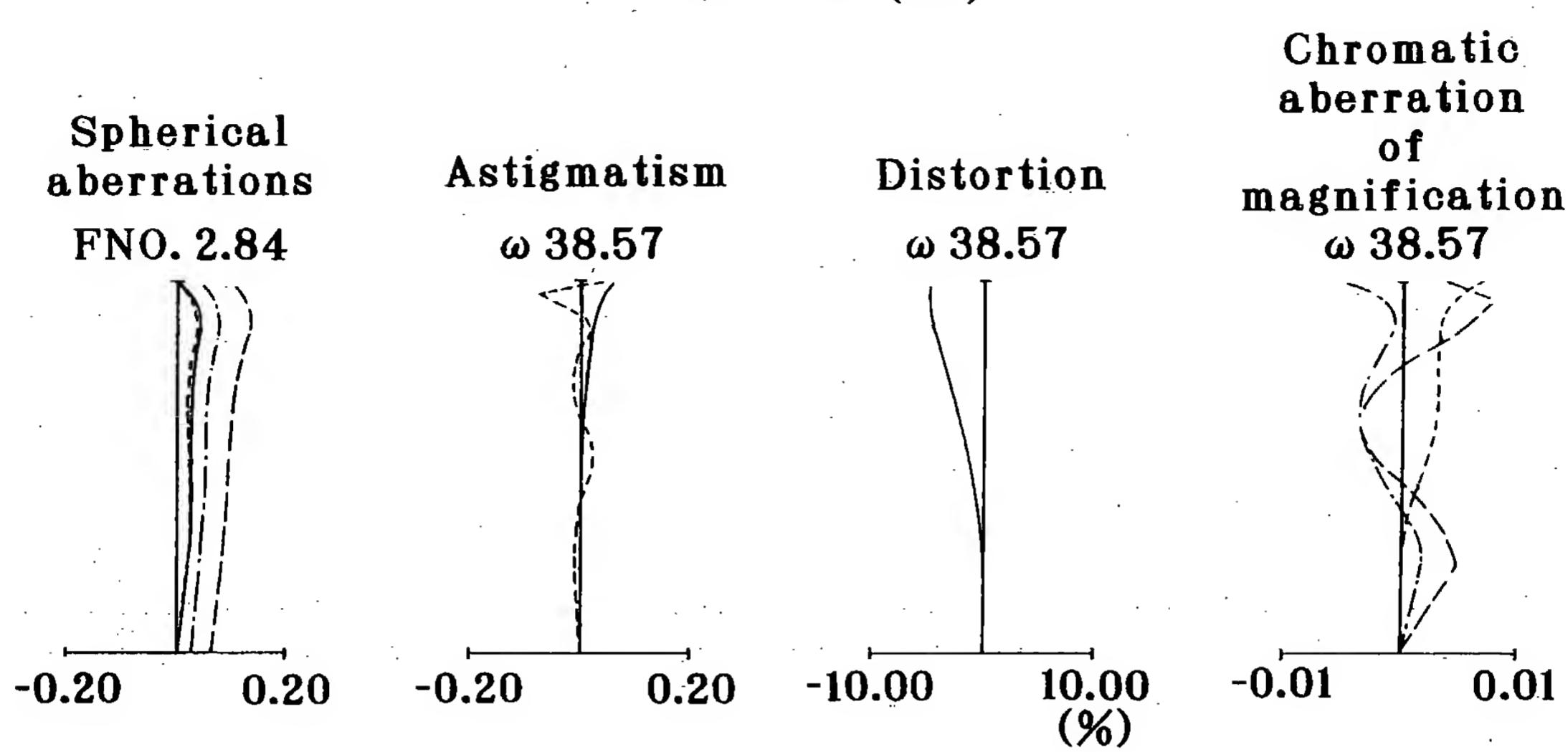


FIG. 19(b)

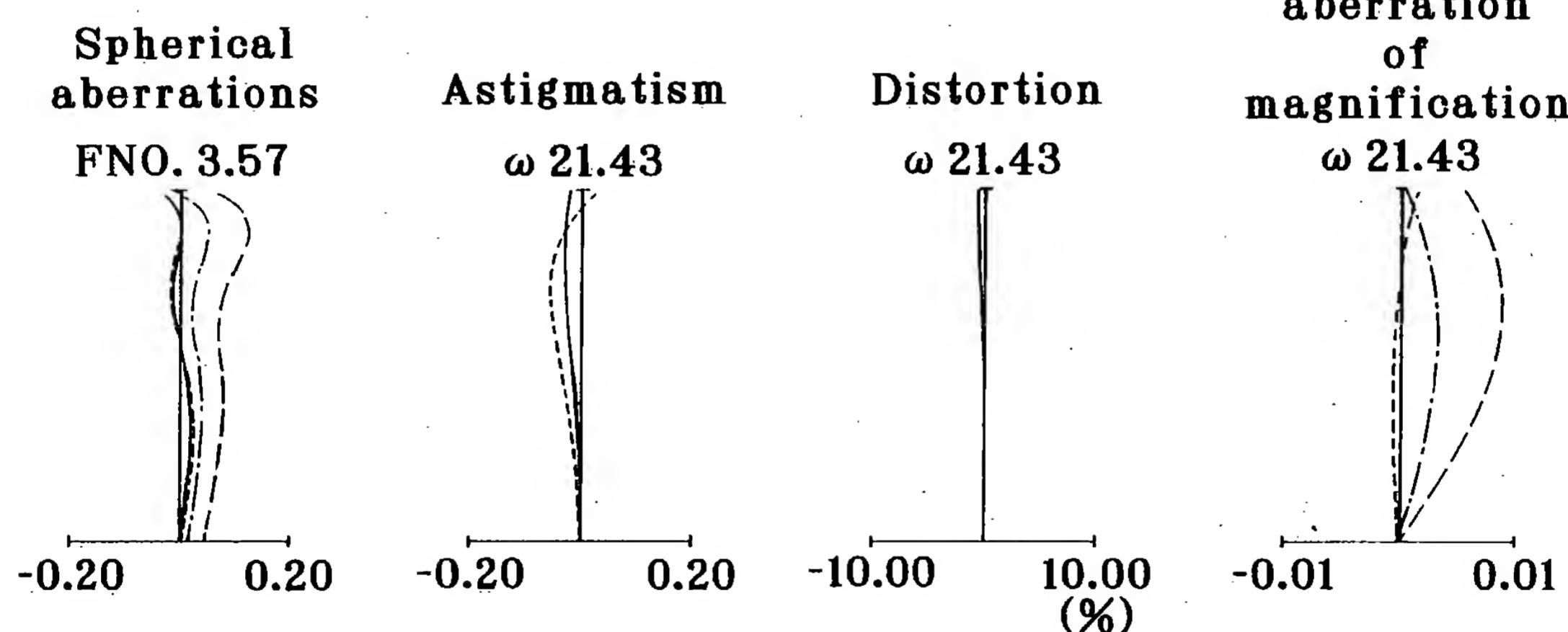


FIG. 19(c)

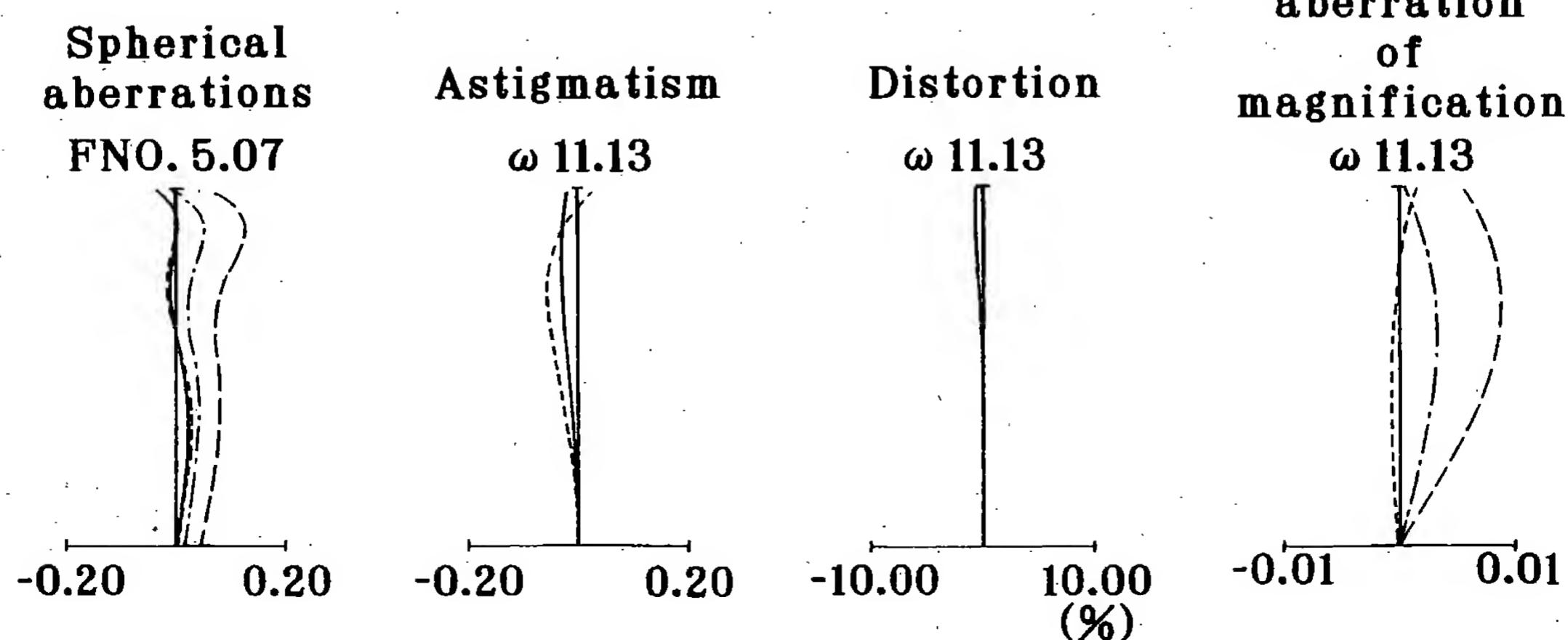
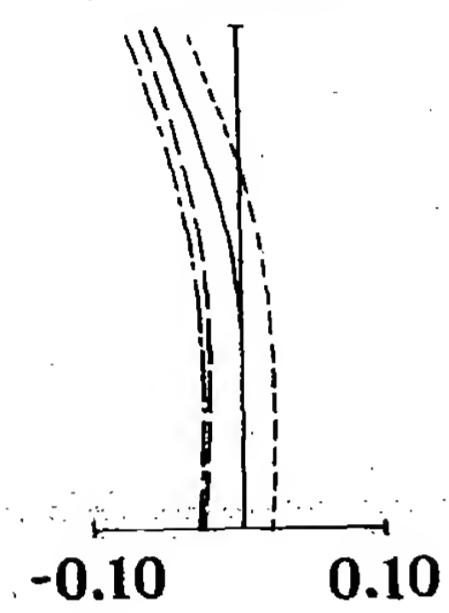
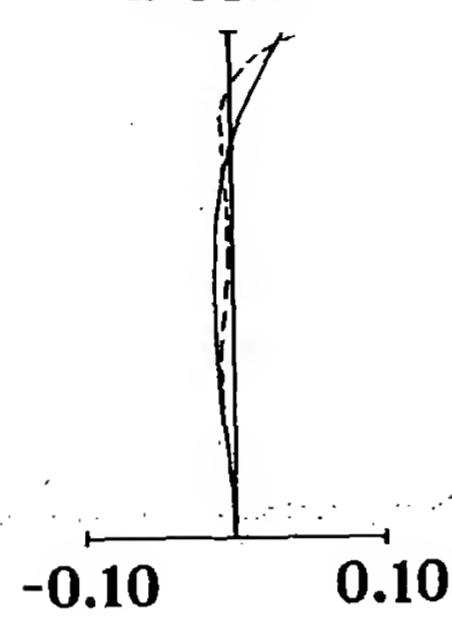


FIG. 20(a)

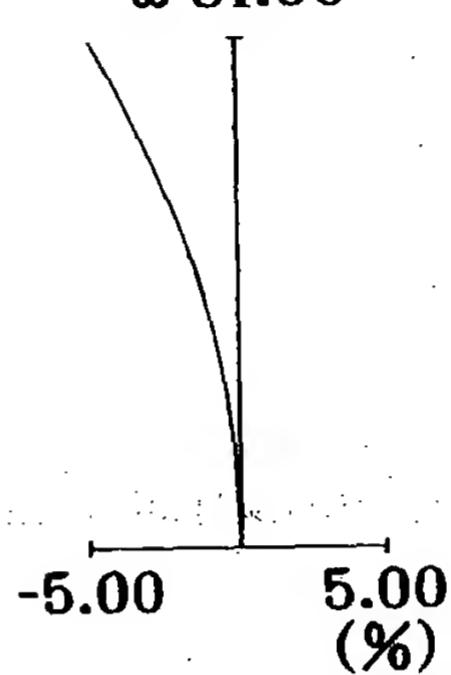
Spherical  
aberrations  
FNO. 2.77



Astigmatism  
 $\omega$  31.00



Distortion  
 $\omega$  31.00



Chromatic  
aberration  
of  
magnification  
 $\omega$  31.00

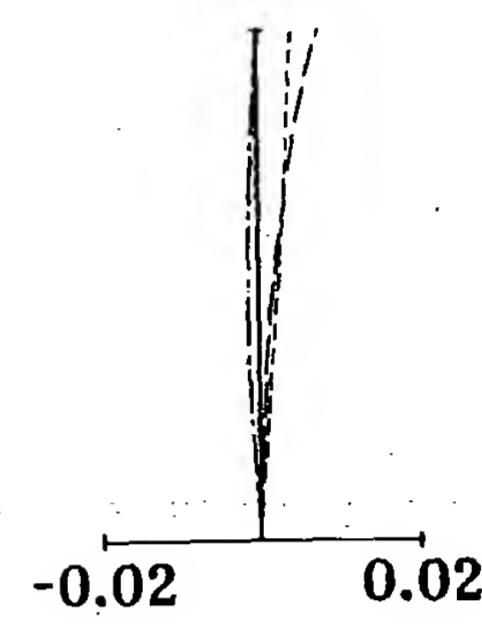
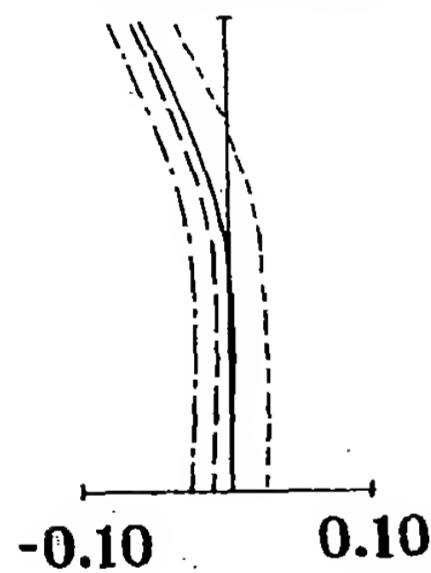
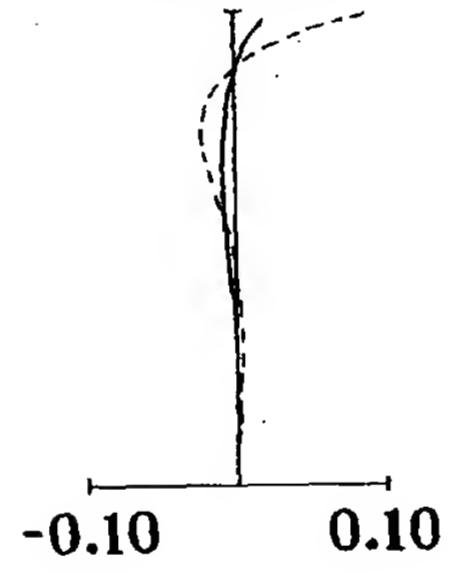


FIG. 20(b)

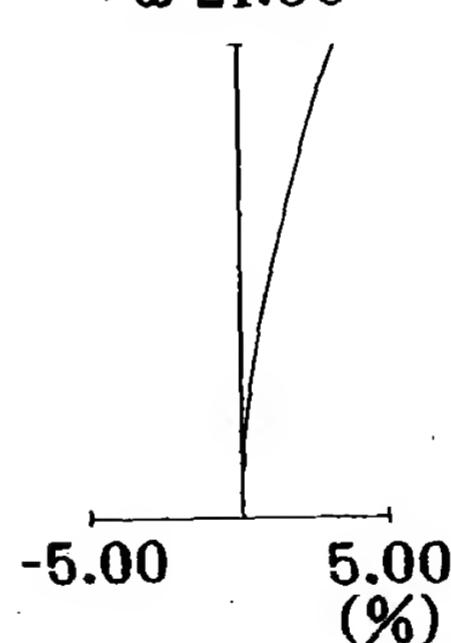
Spherical  
aberrations  
FNO. 3.49



Astigmatism  
 $\omega$  21.50



Distortion  
 $\omega$  21.50



Chromatic  
aberration  
of  
magnification  
 $\omega$  21.50

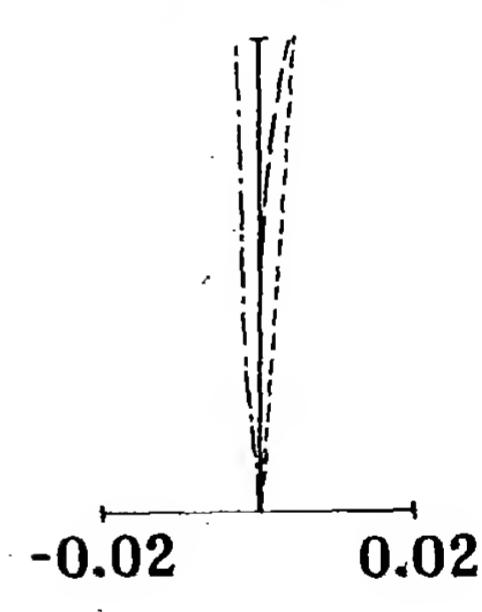
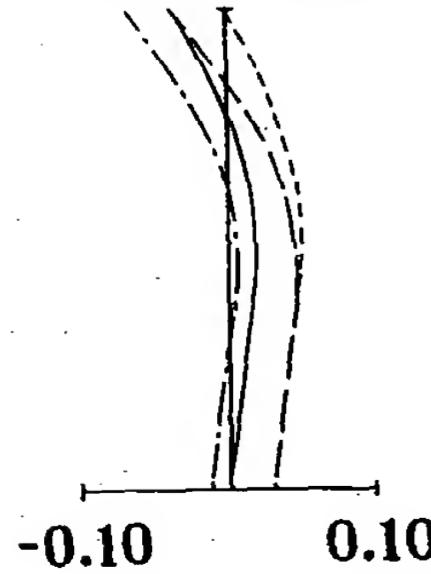
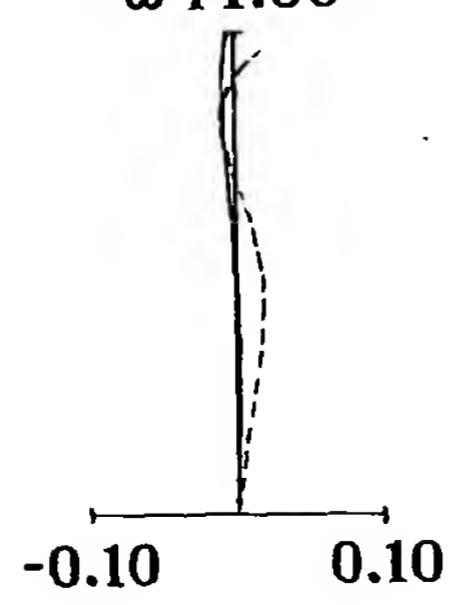


FIG. 20(c)

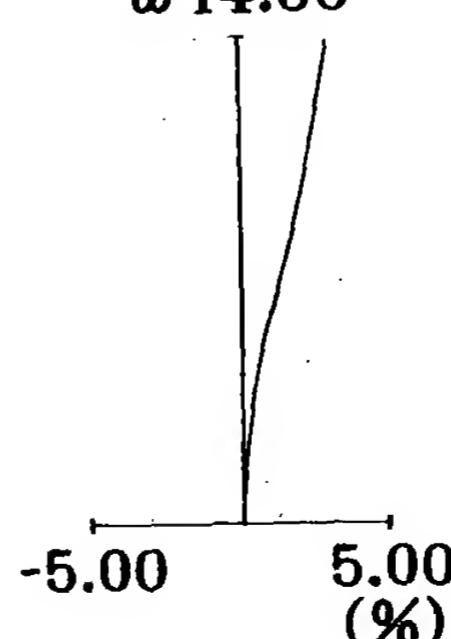
Spherical  
aberrations  
FNO. 4.53



Astigmatism  
 $\omega$  14.50



Distortion  
 $\omega$  14.50



Chromatic  
aberration  
of  
magnification  
 $\omega$  14.50

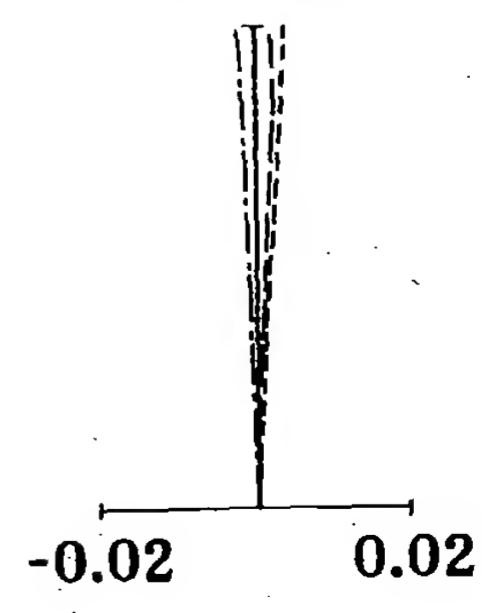


FIG. 21(a)

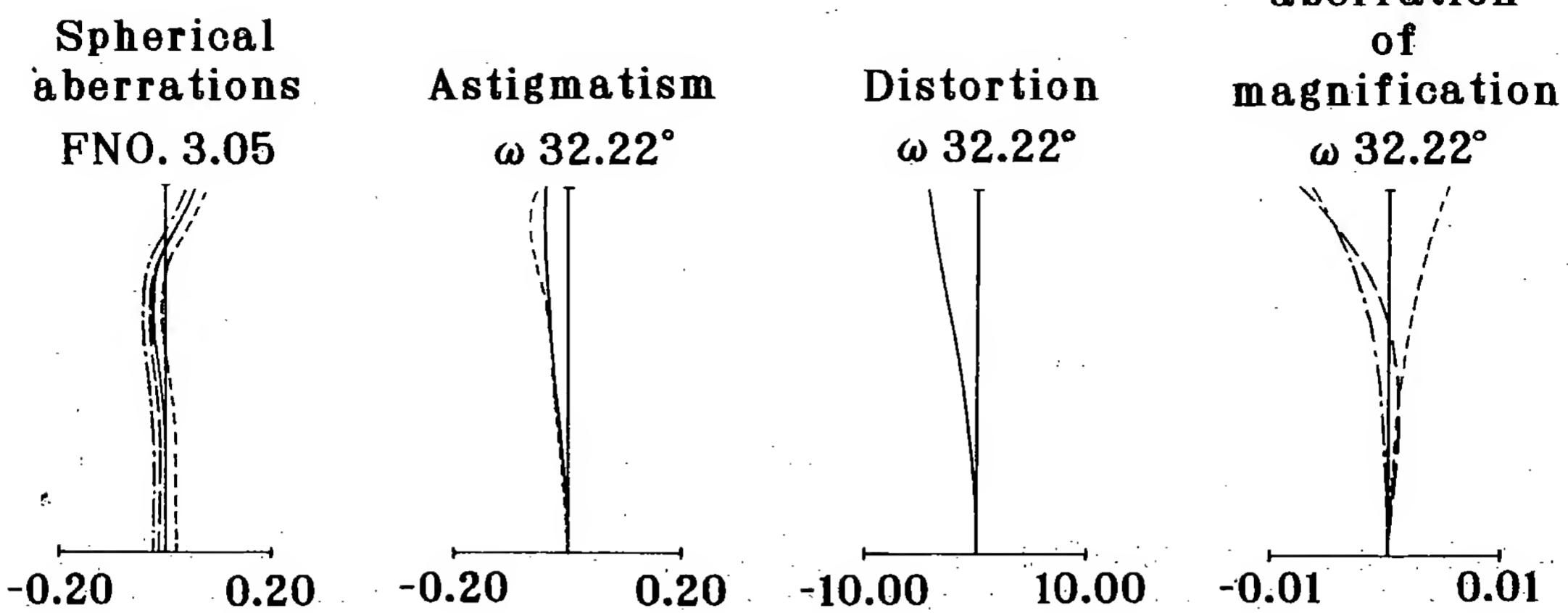


FIG. 21(b)

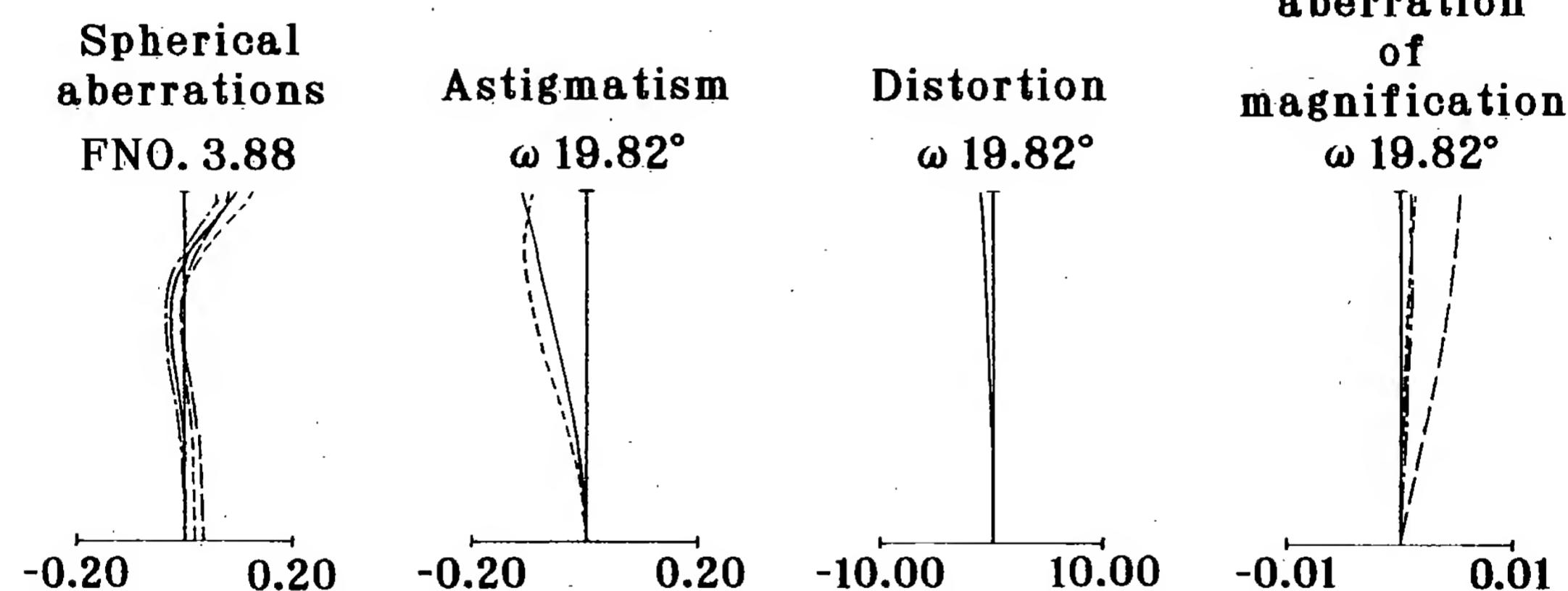


FIG. 21(c)

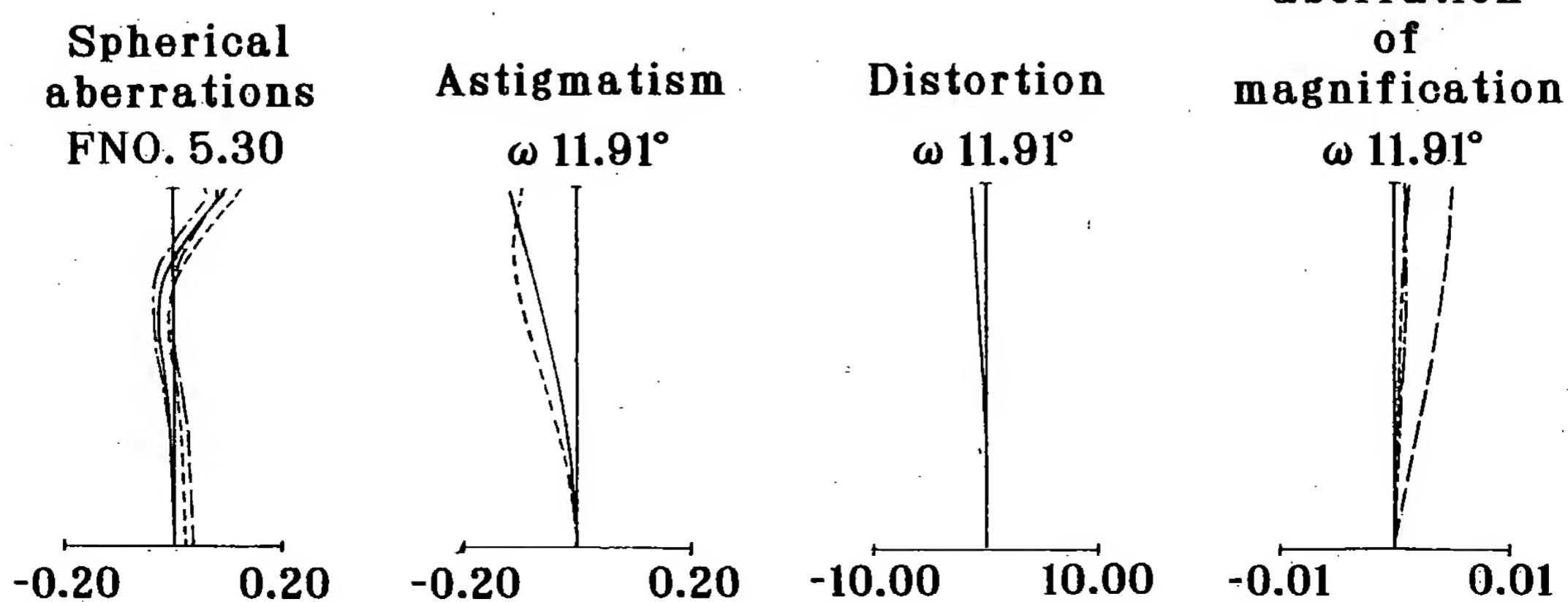


FIG. 22(a)

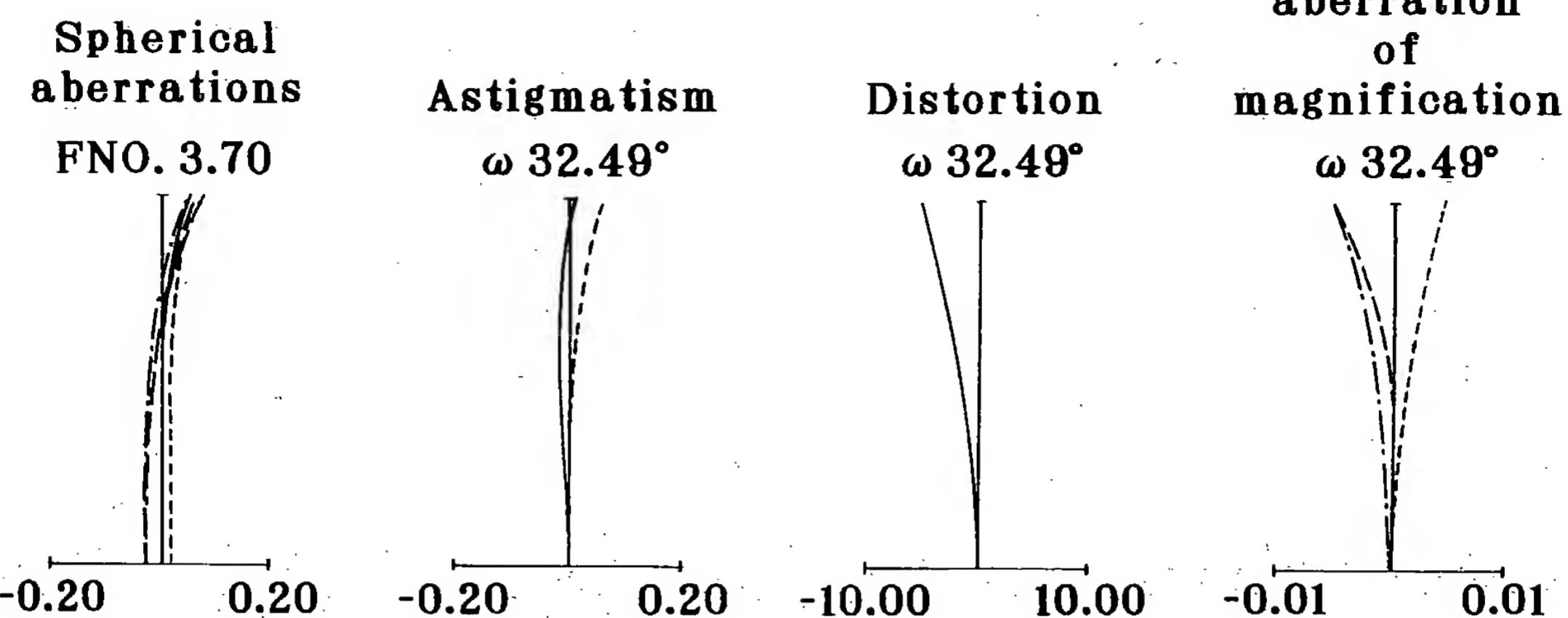


FIG. 22(b)

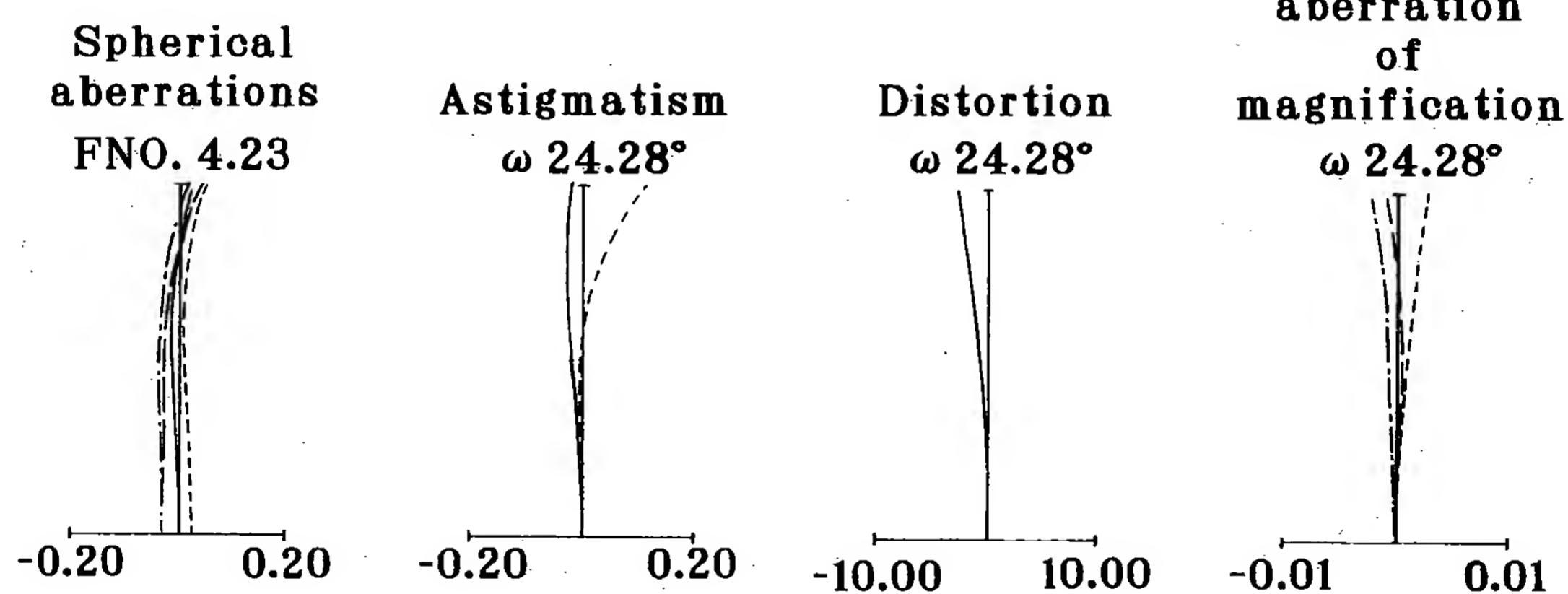


FIG. 22(c)

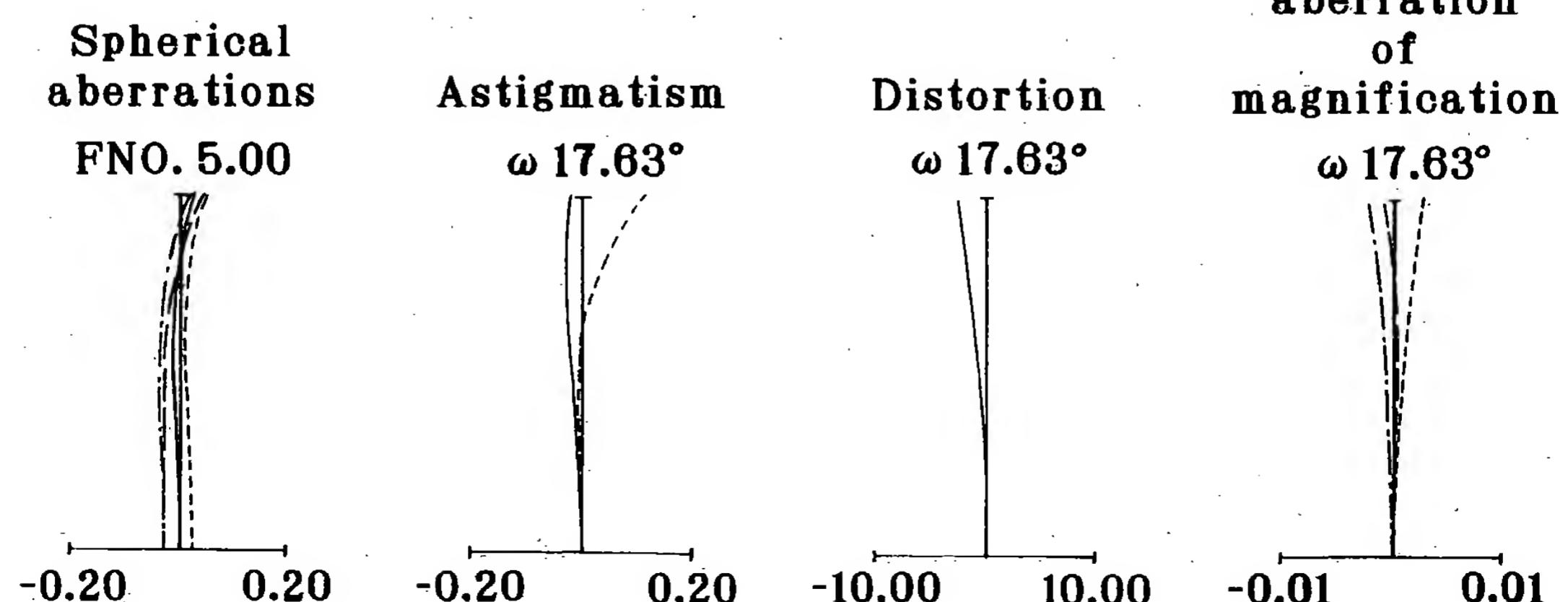


FIG. 23(a)

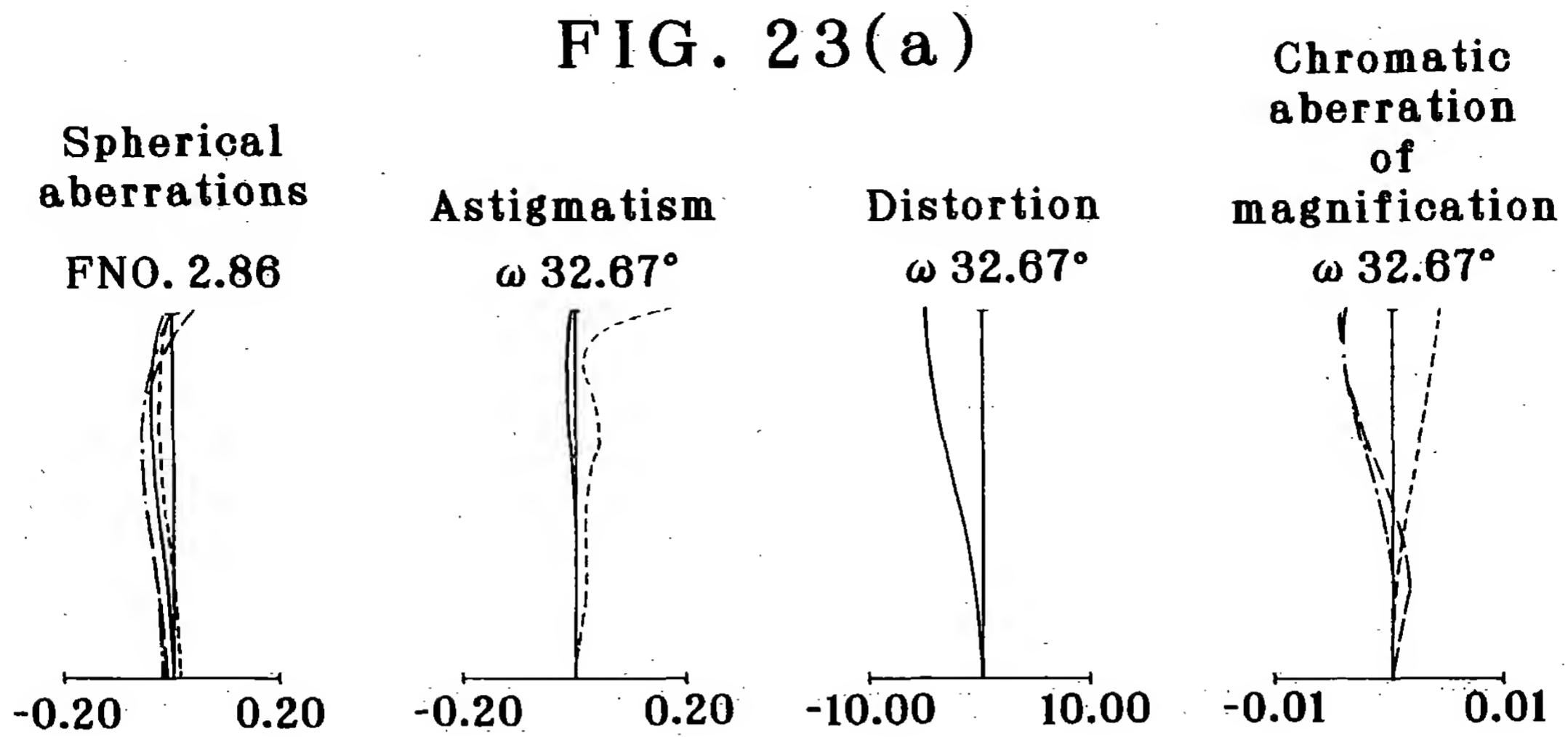


FIG. 23(b)

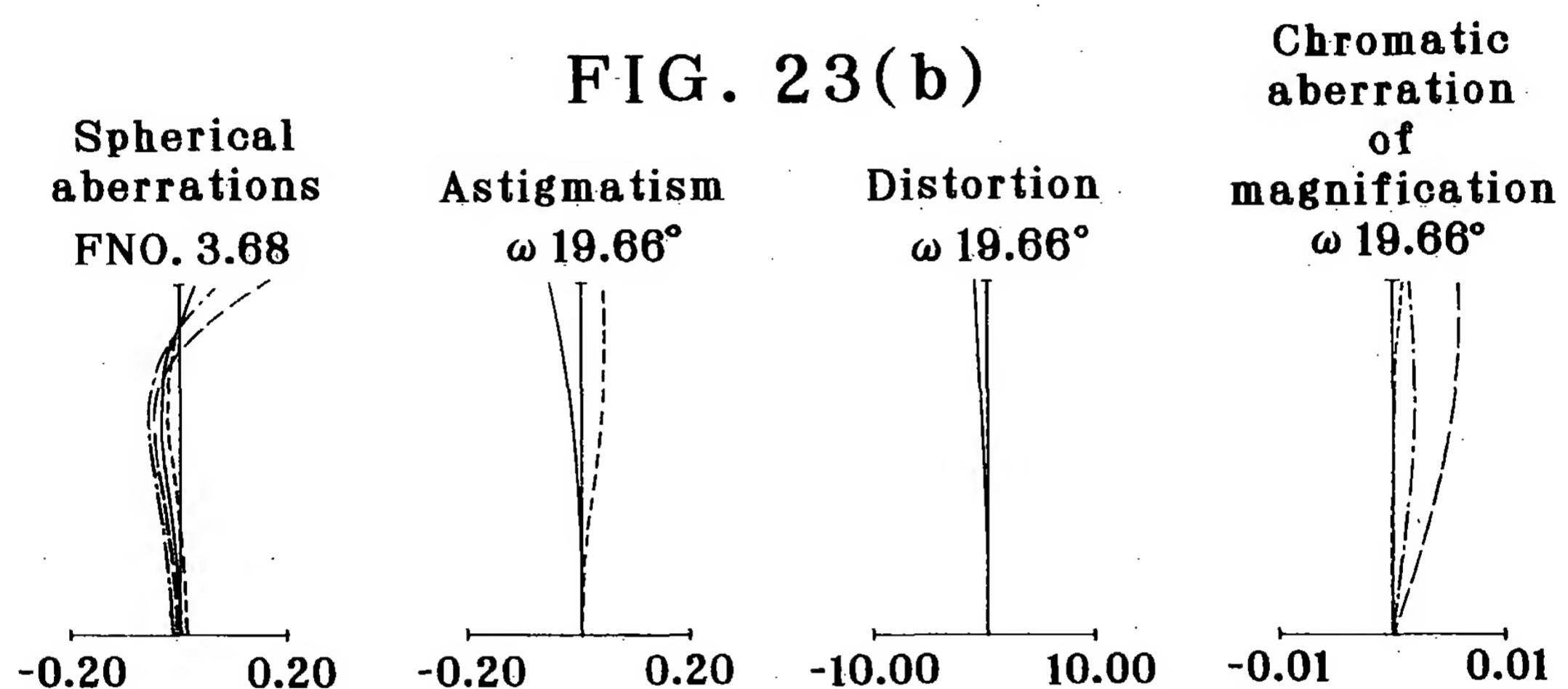


FIG. 23(c)

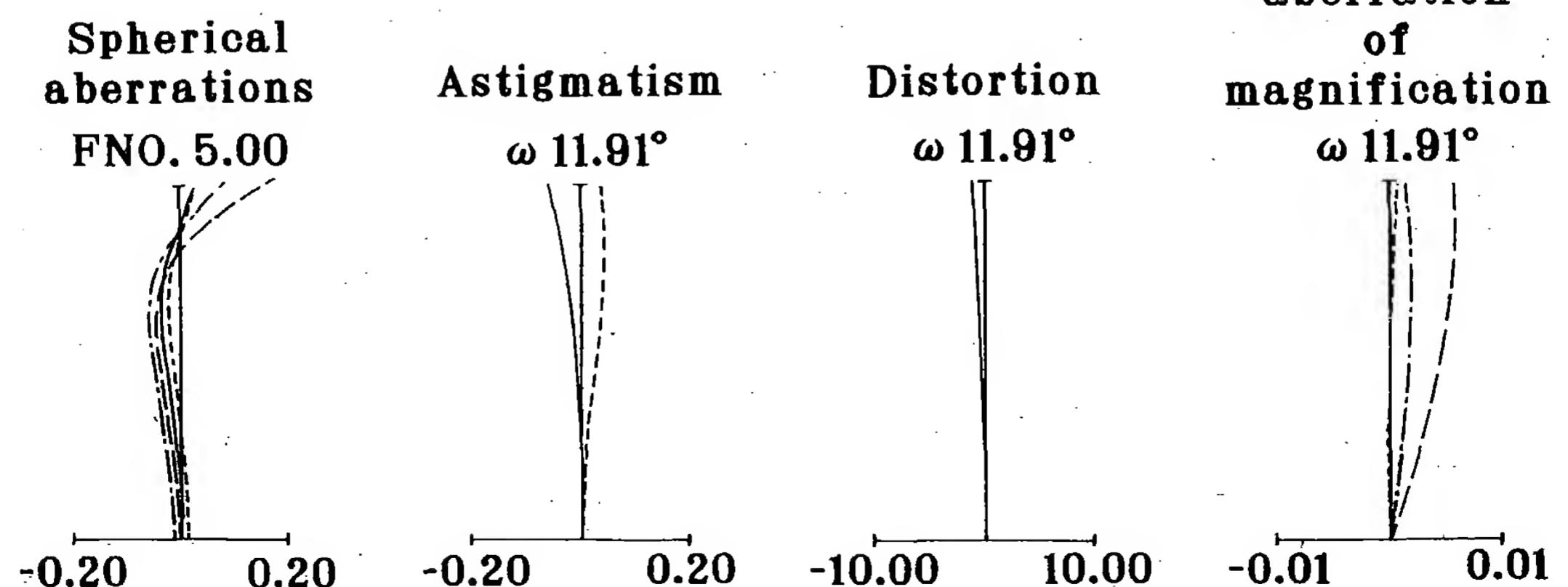
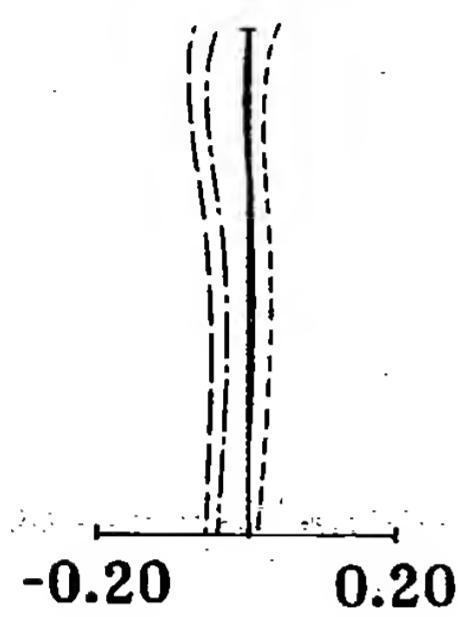
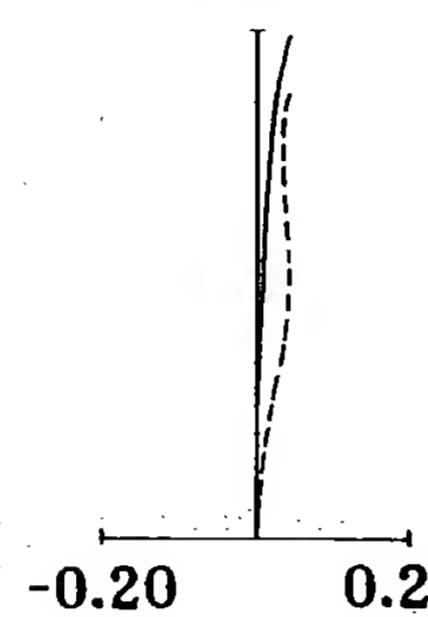


FIG. 24(a)

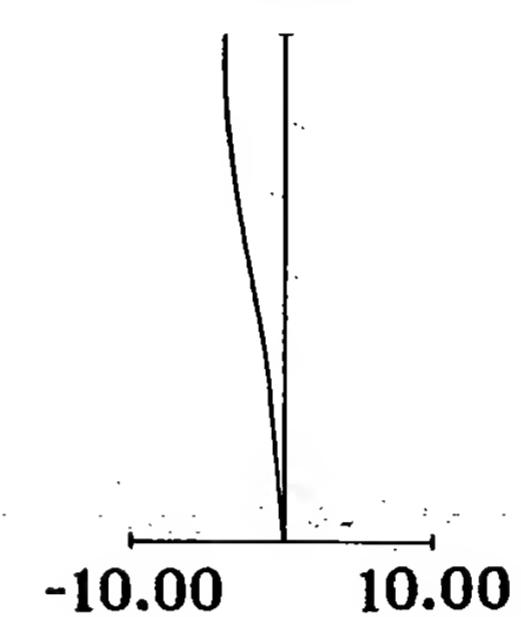
Spherical  
aberrations  
FNO. 3.67



Astigmatism  
 $\omega 32.44^\circ$



Distortion  
 $\omega 32.44^\circ$



Chromatic  
aberration  
of  
magnification  
 $\omega 32.44^\circ$

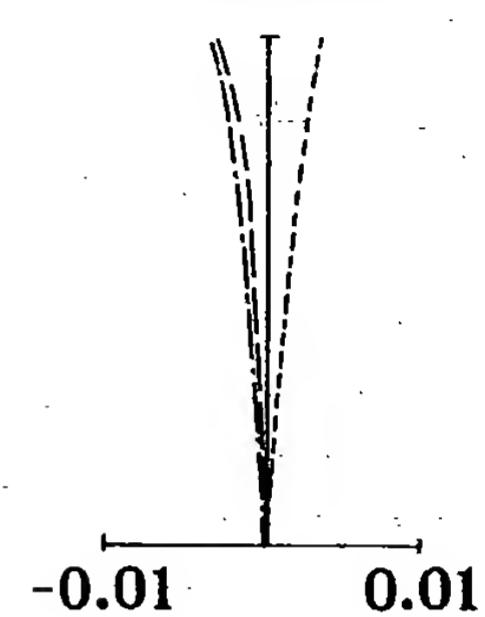
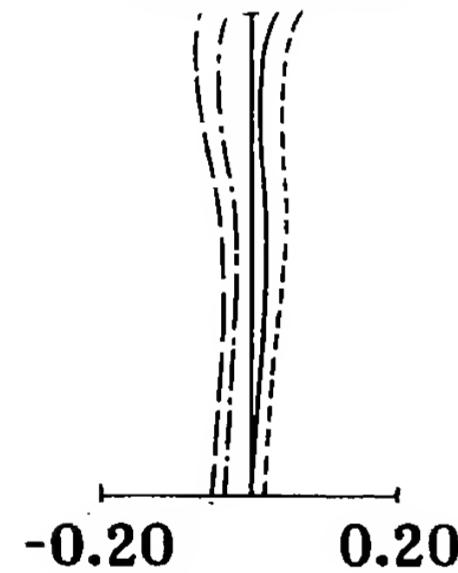
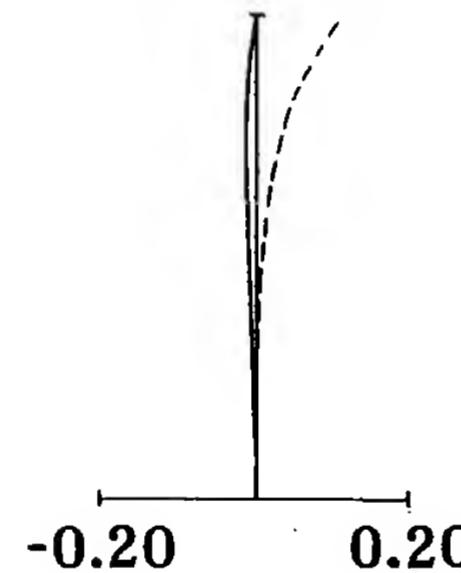


FIG. 24(b)

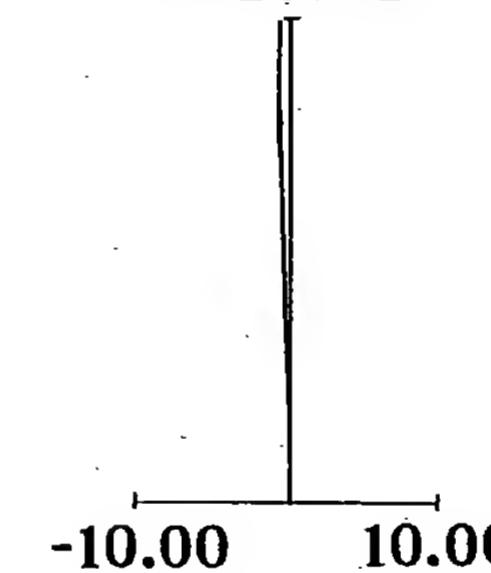
Spherical  
aberrations  
FNO. 4.20



Astigmatism  
 $\omega 23.94^\circ$



Distortion  
 $\omega 23.94^\circ$



Chromatic  
aberration  
of  
magnification  
 $\omega 23.94^\circ$

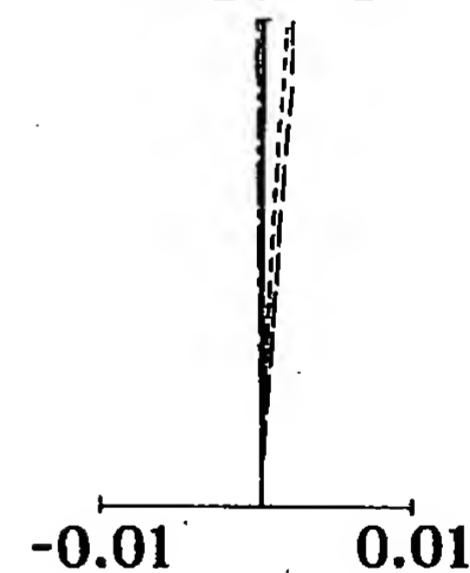
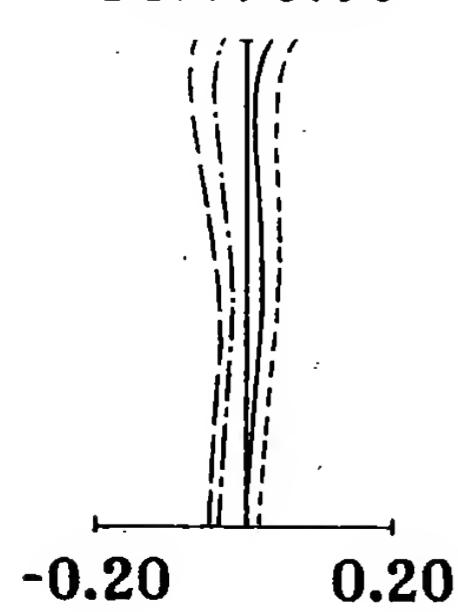
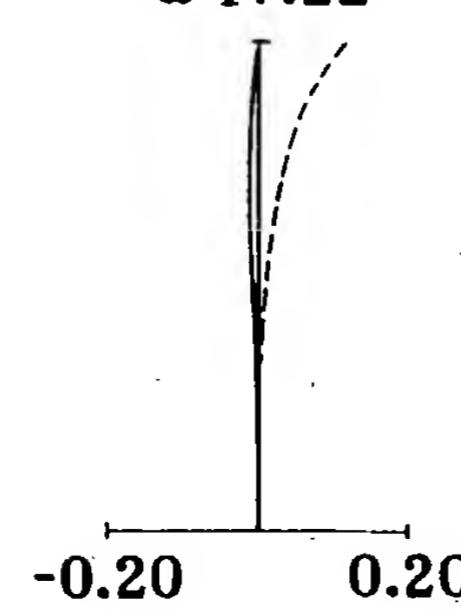


FIG. 24(c)

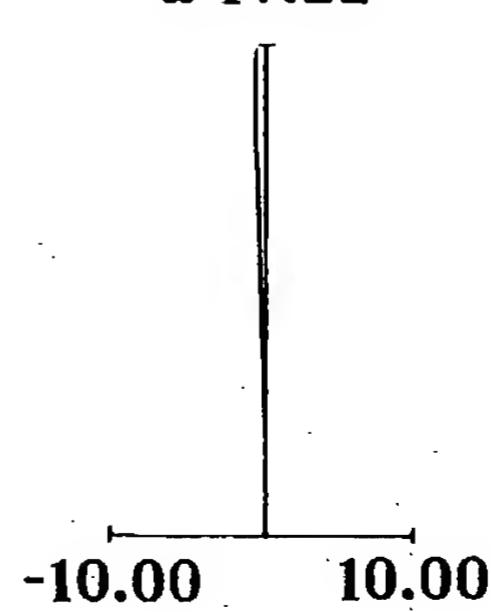
Spherical  
aberrations  
FNO. 5.00



Astigmatism  
 $\omega 17.22^\circ$



Distortion  
 $\omega 17.22^\circ$



Chromatic  
aberration  
of  
magnification  
 $\omega 17.22^\circ$

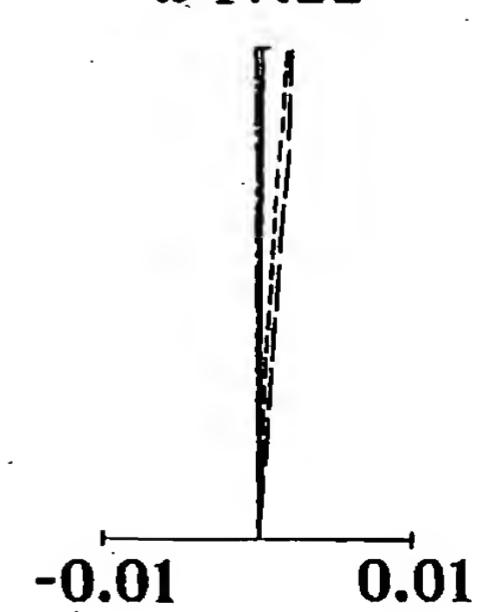


FIG. 25

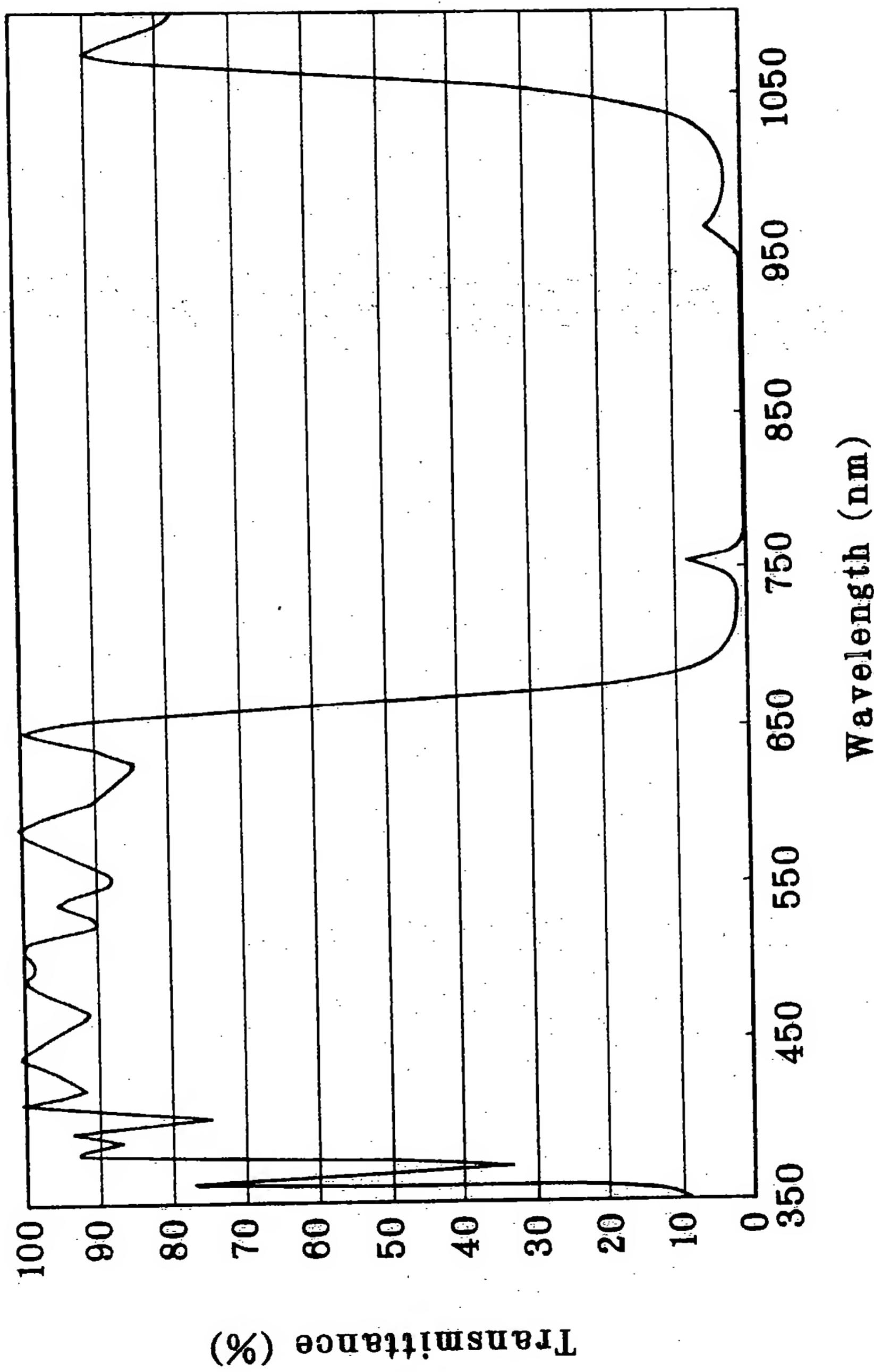


FIG. 26

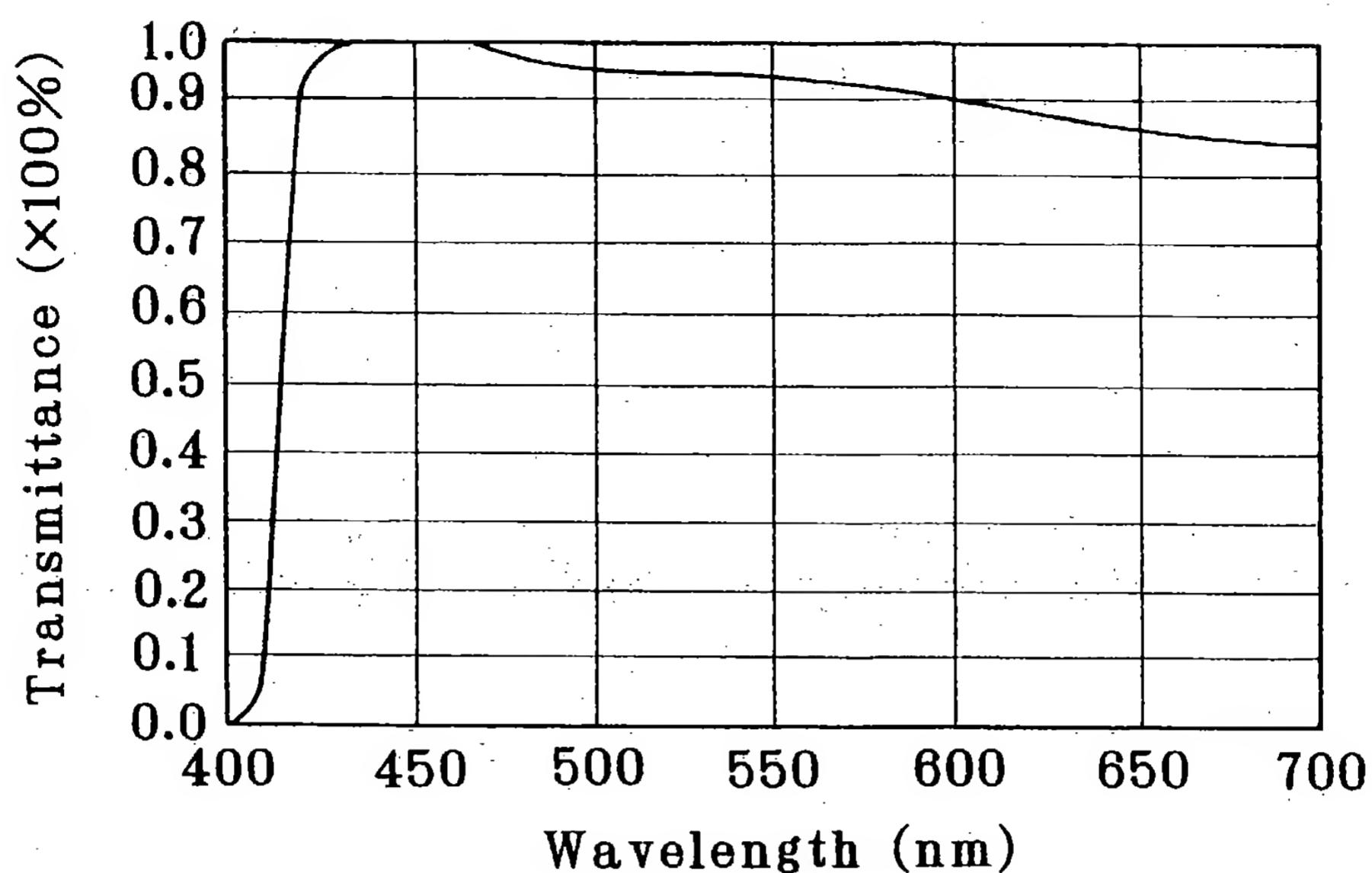
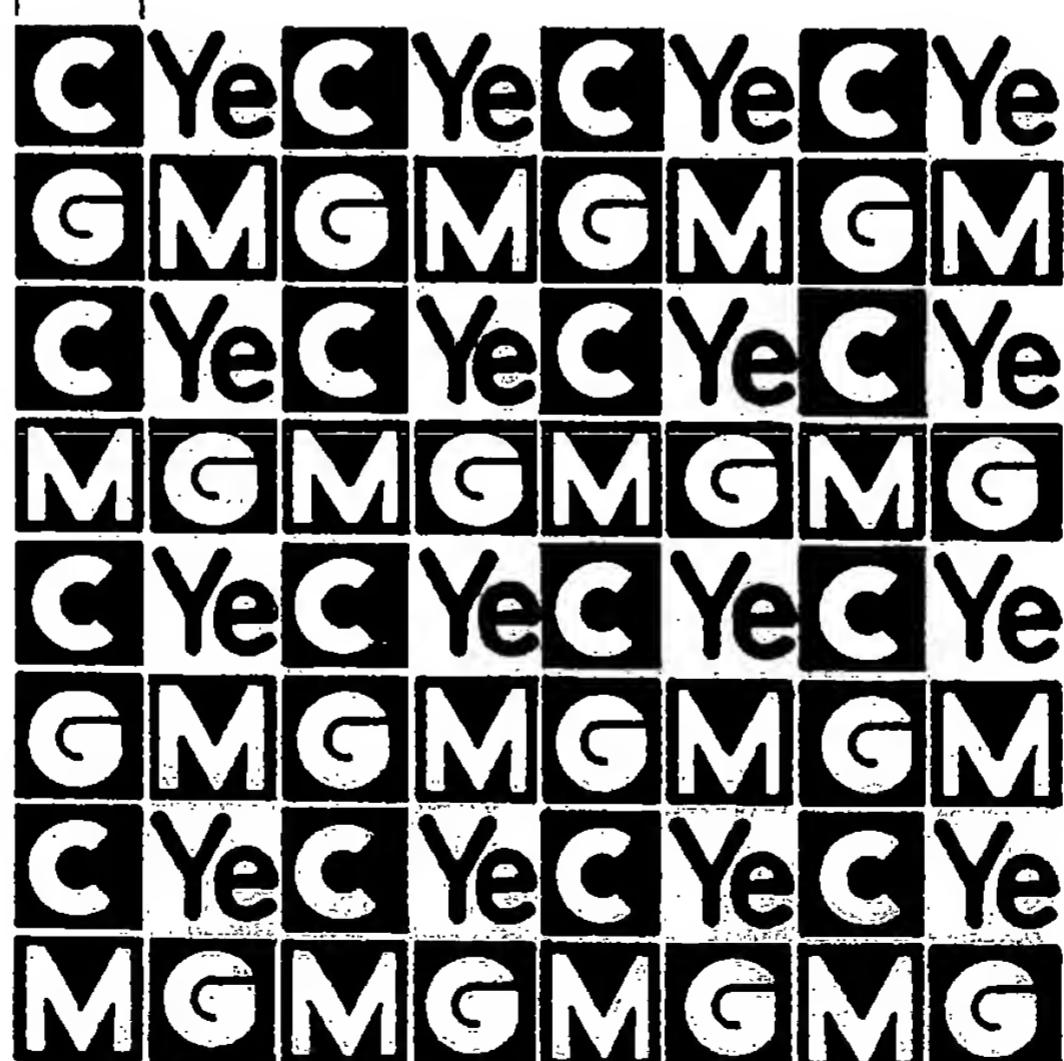


FIG. 27

→ a ← Complementary colors  
mosaic filter



C : Cyan   M : Magenta

Ye : Yellow   G : Green

FIG. 28

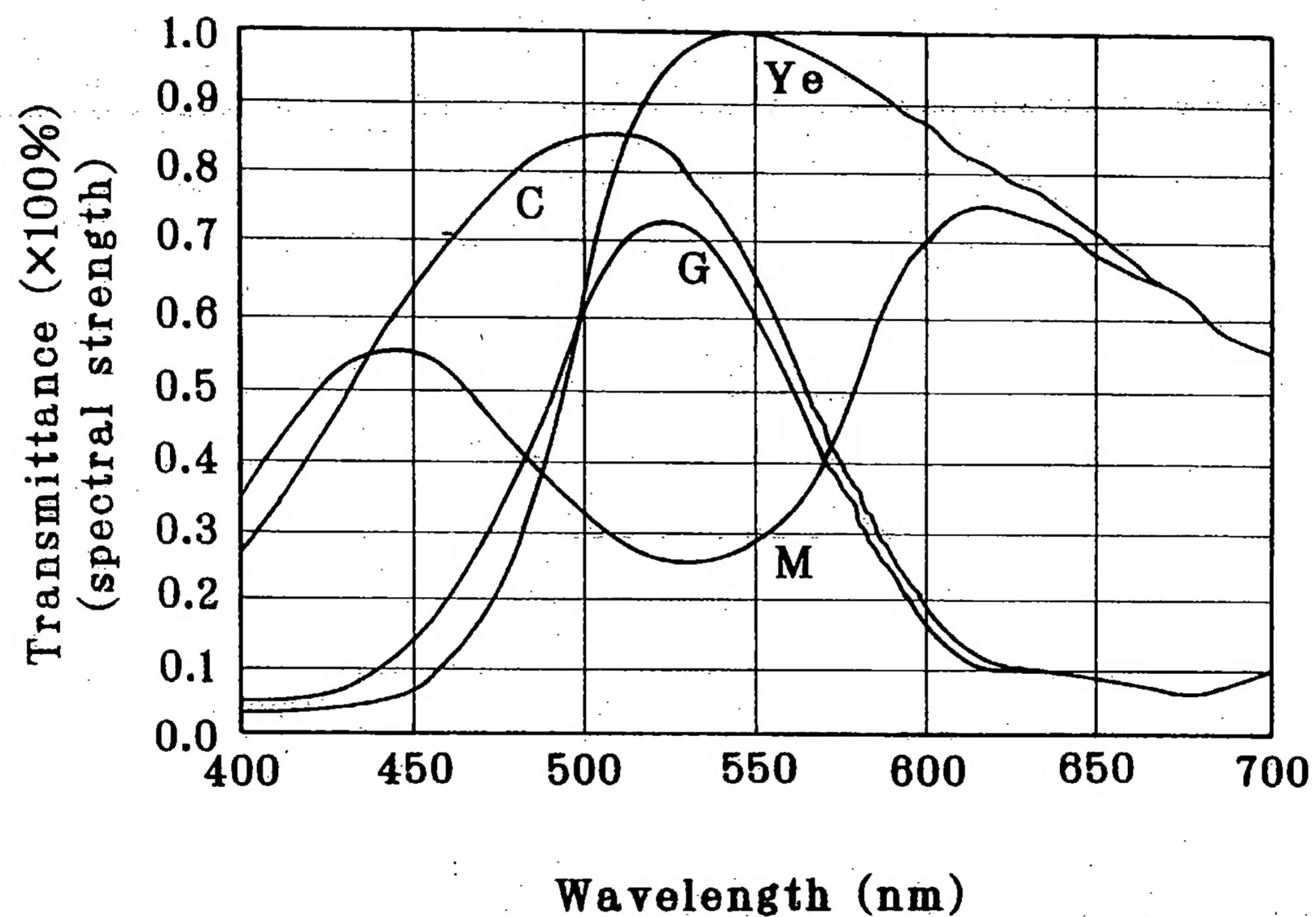


FIG. 29(a) FIG. 29(b)

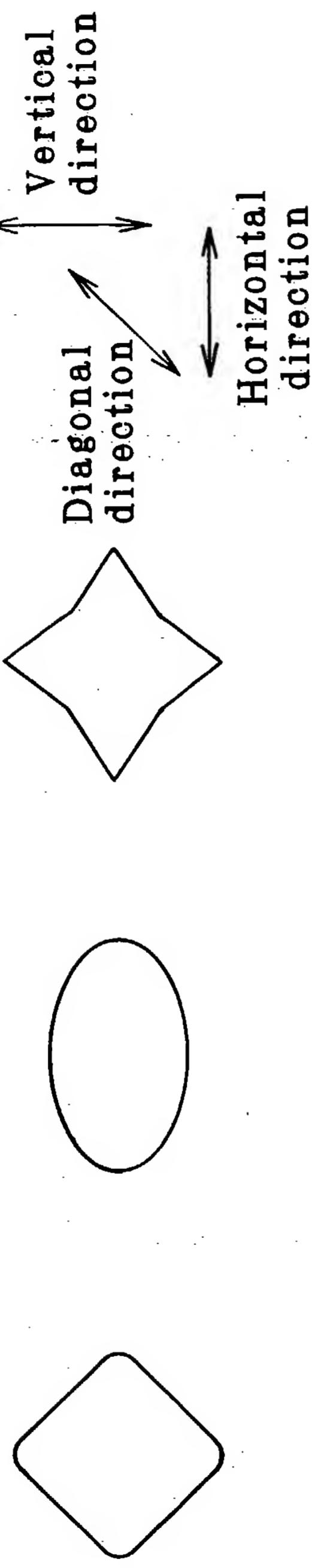


FIG. 29(c)

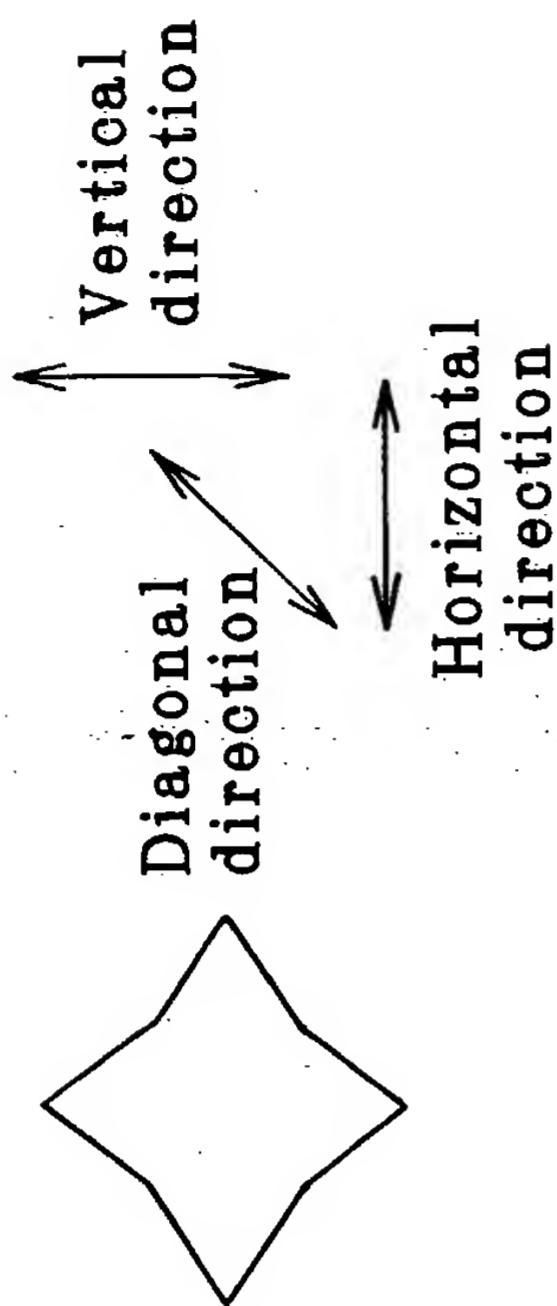


FIG. 30(a) FIG. 30(b) FIG. 30(c)

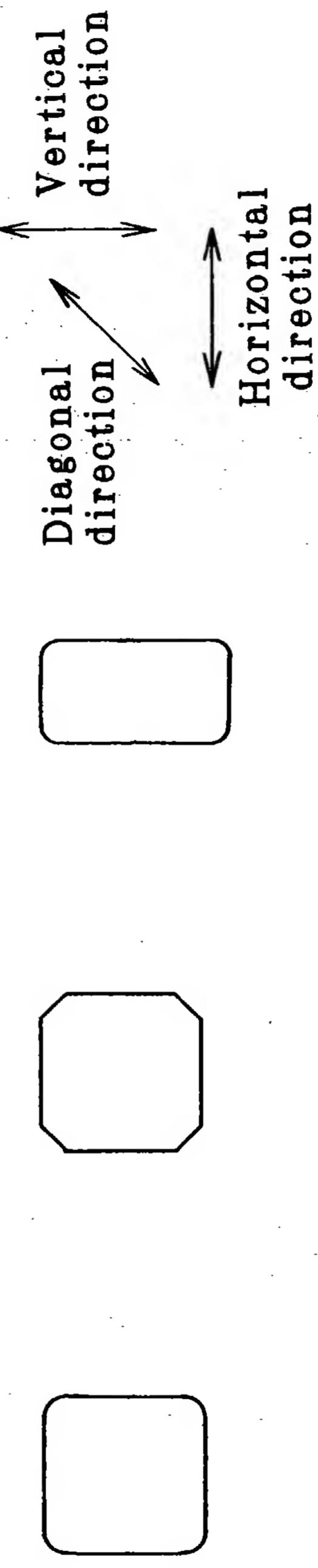


FIG. 31

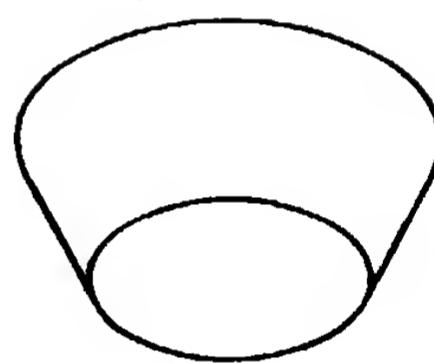


FIG. 32

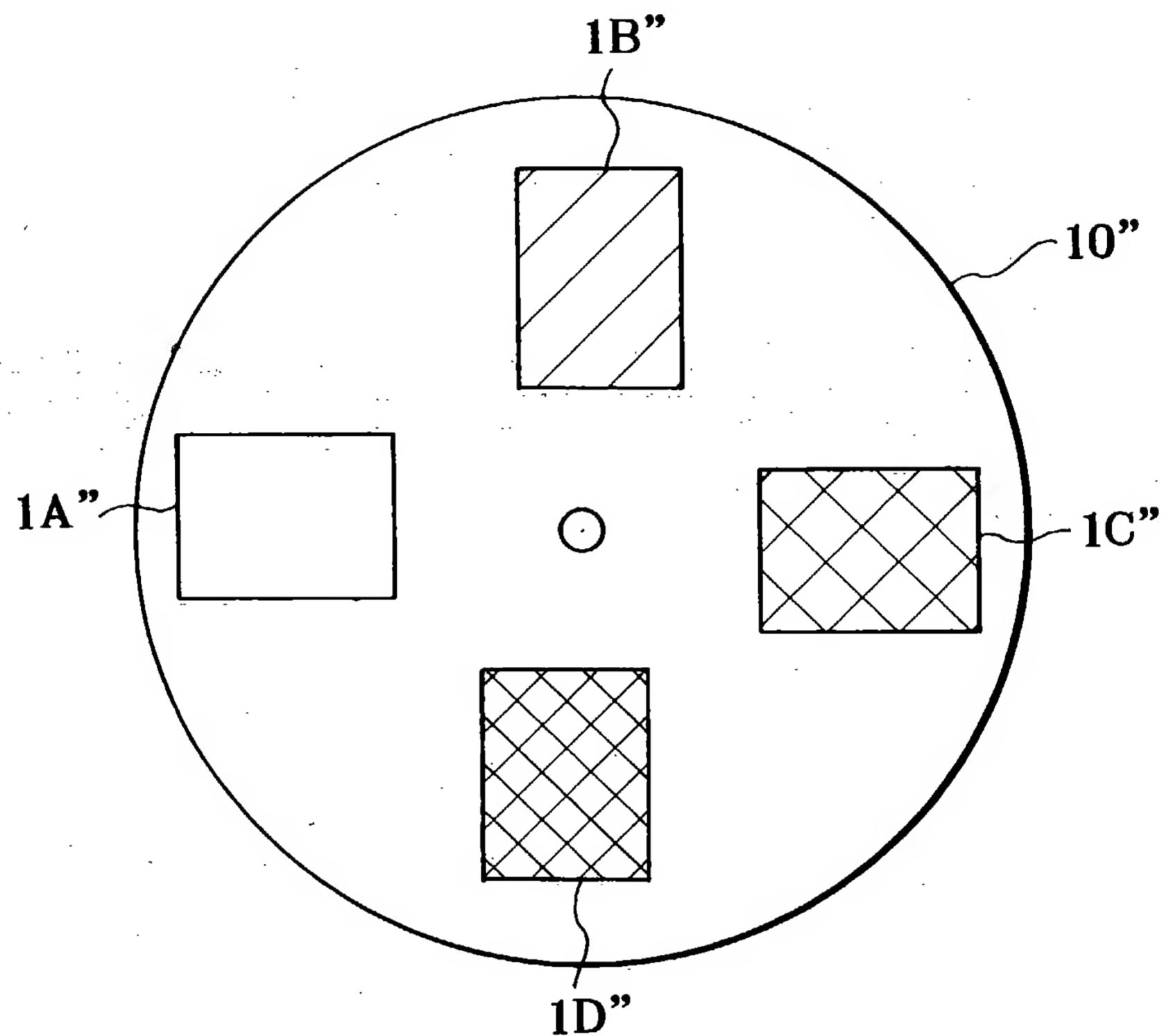


FIG. 33

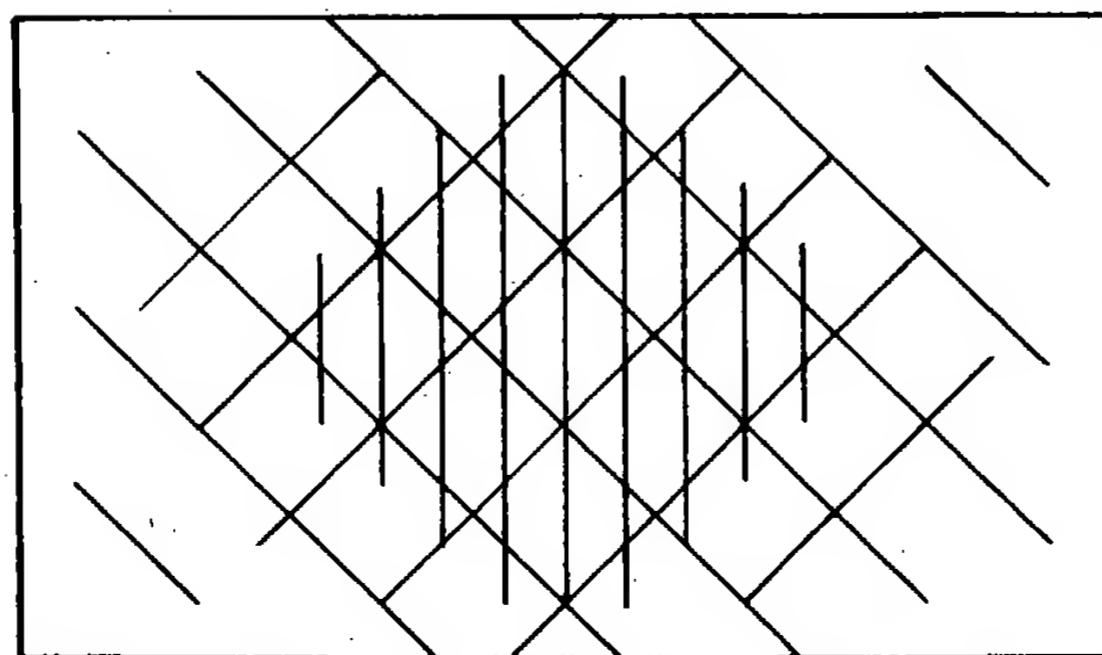


FIG. 34

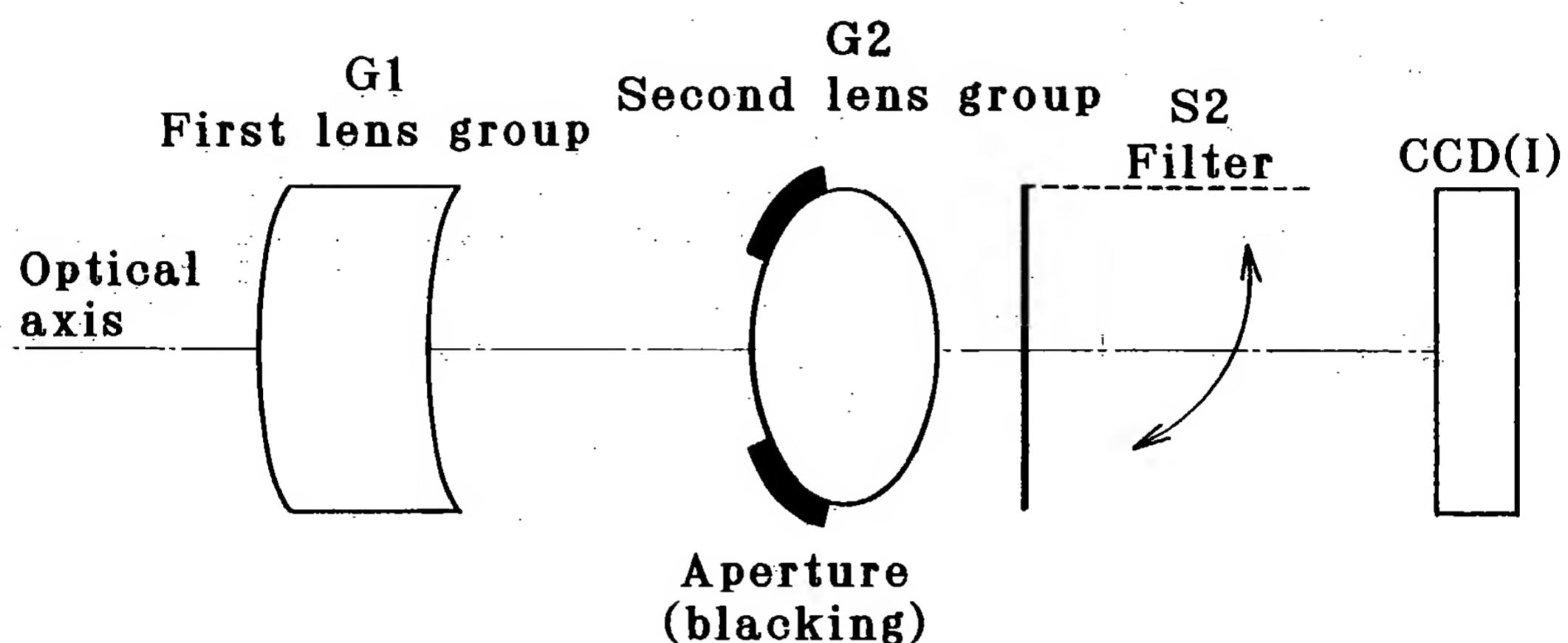


FIG. 35

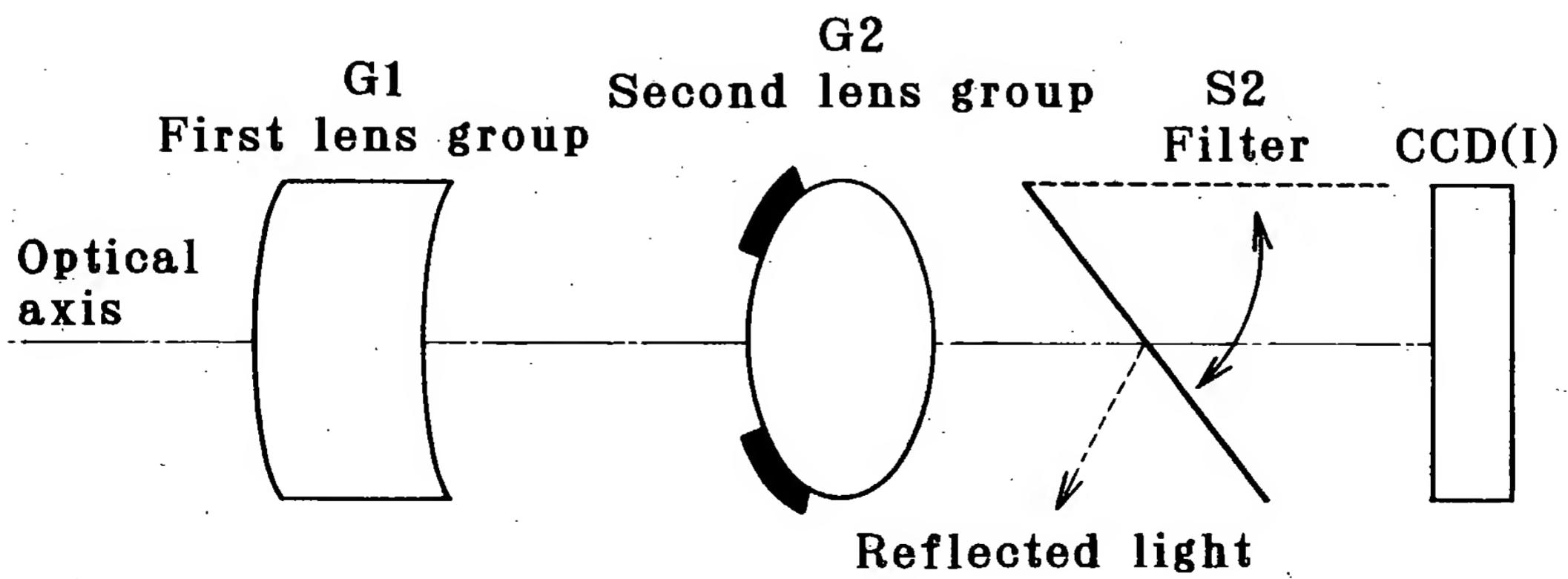


FIG. 36

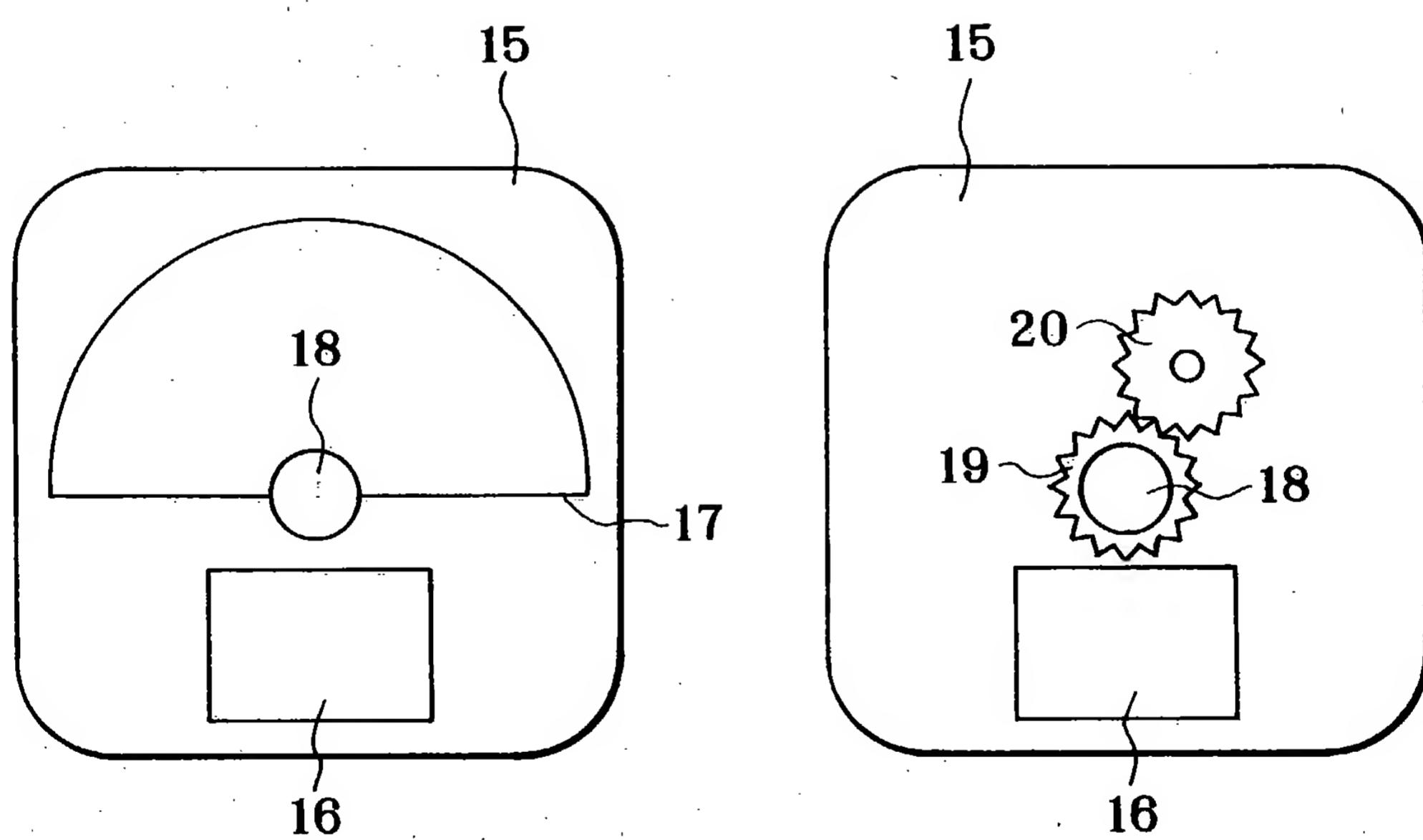


FIG. 37(a)

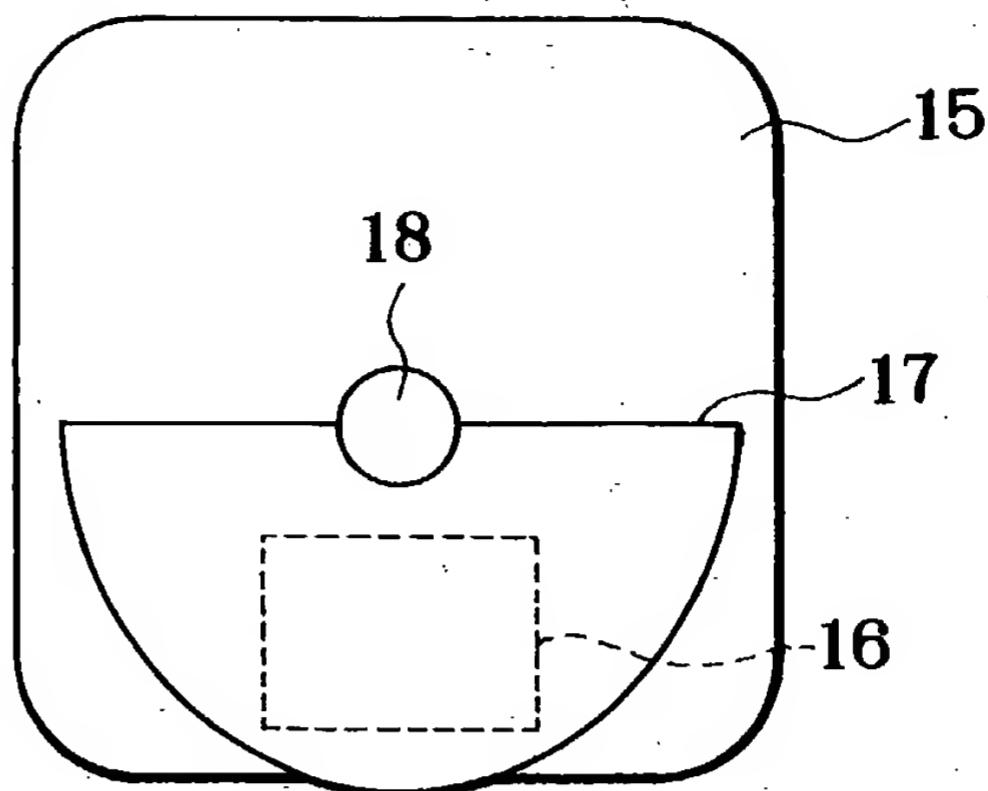


FIG. 37(b)

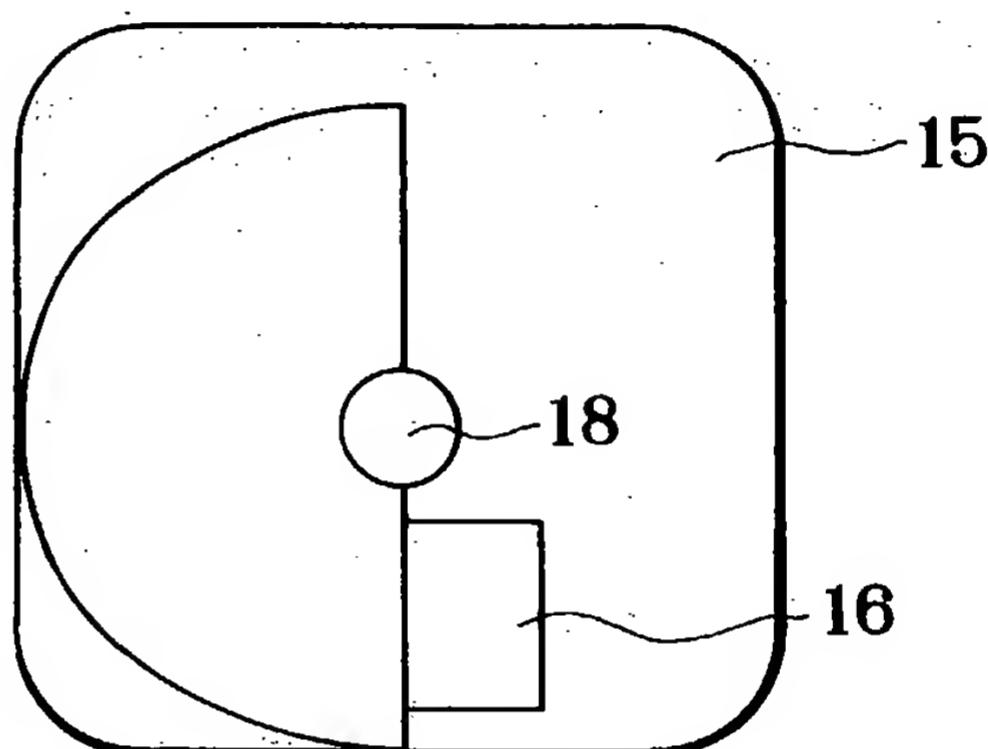


FIG. 37(c)

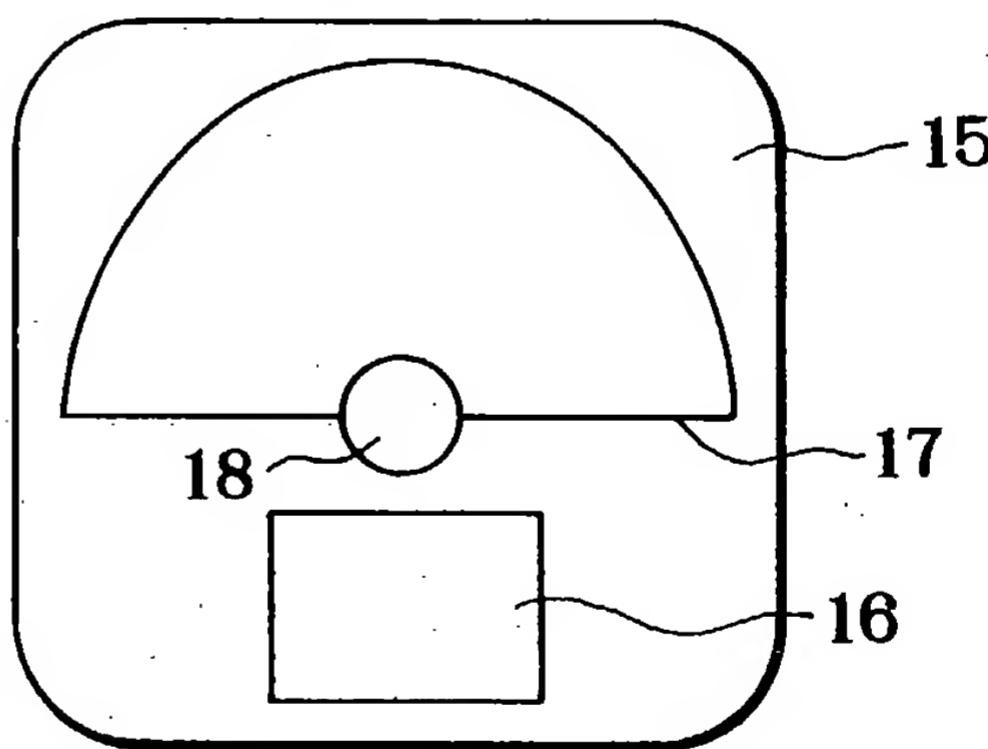


FIG. 37(d)

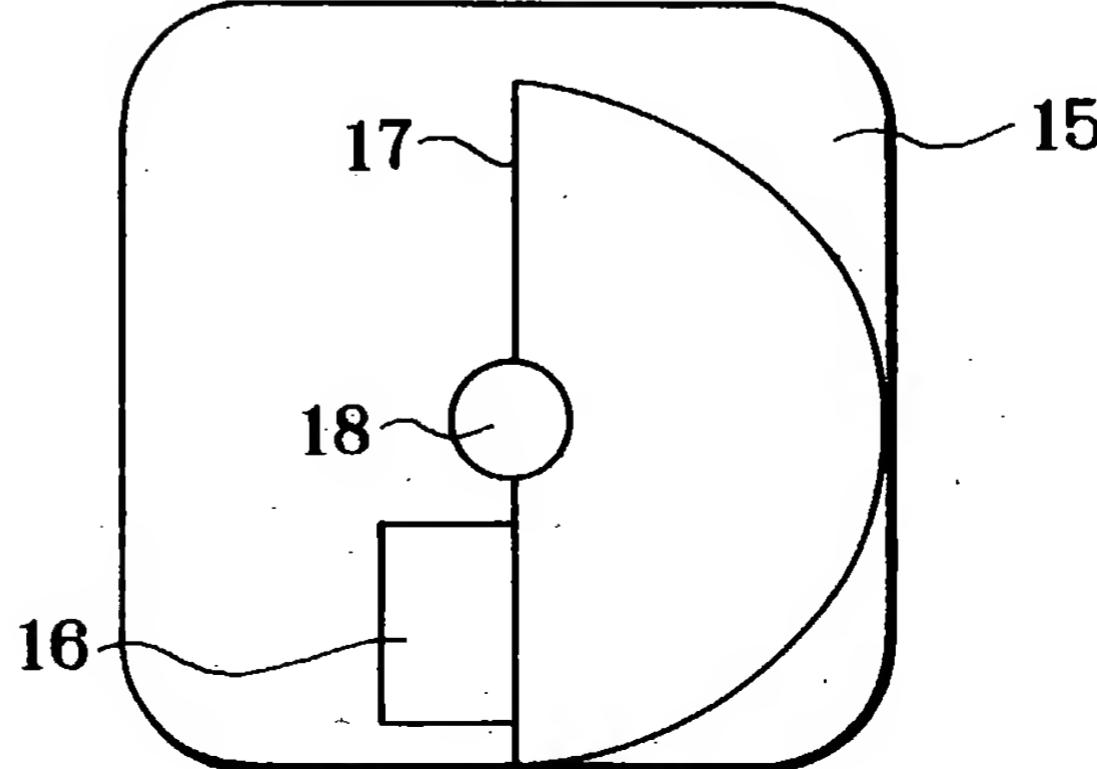


FIG. 38

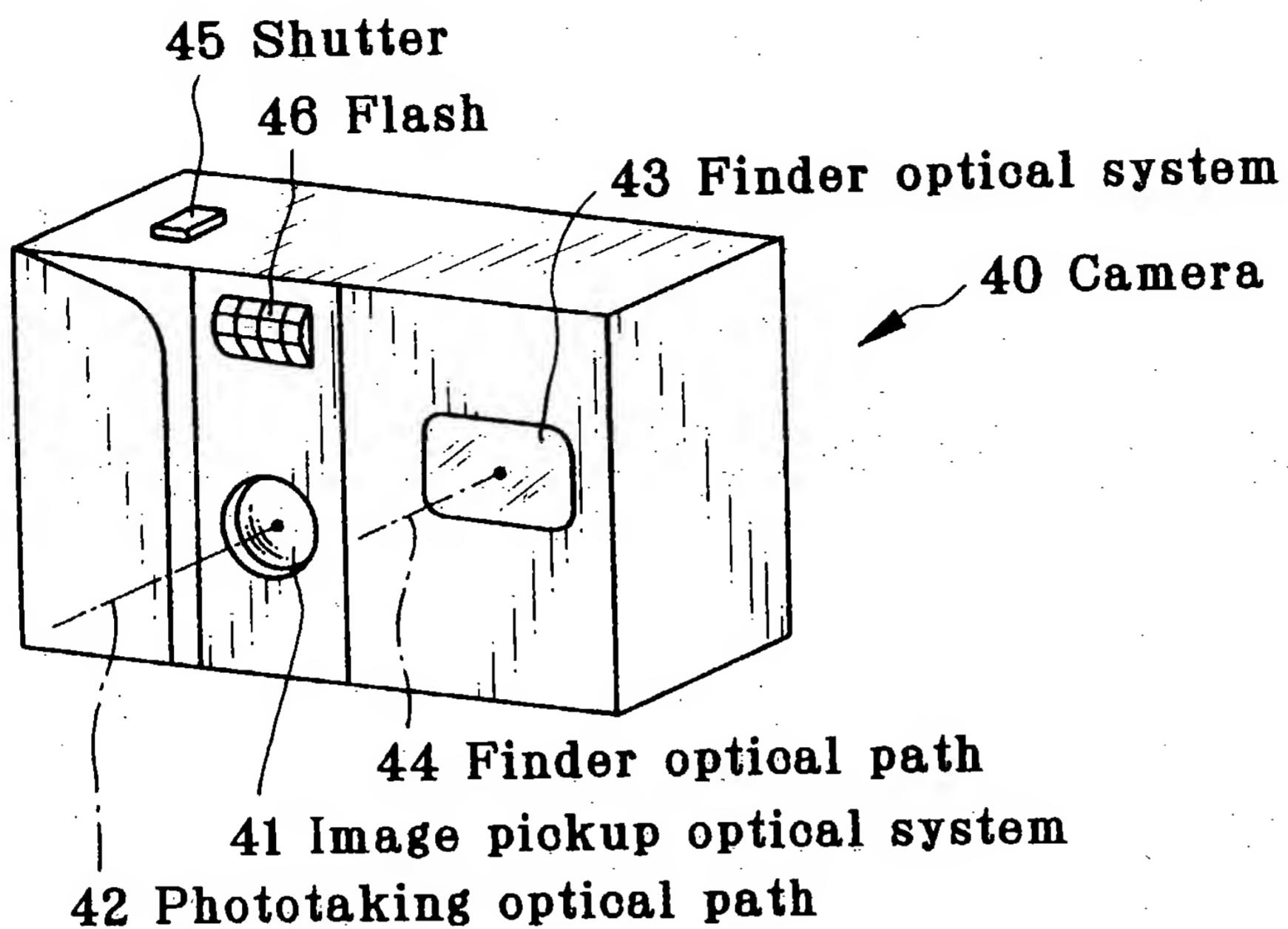


FIG. 39

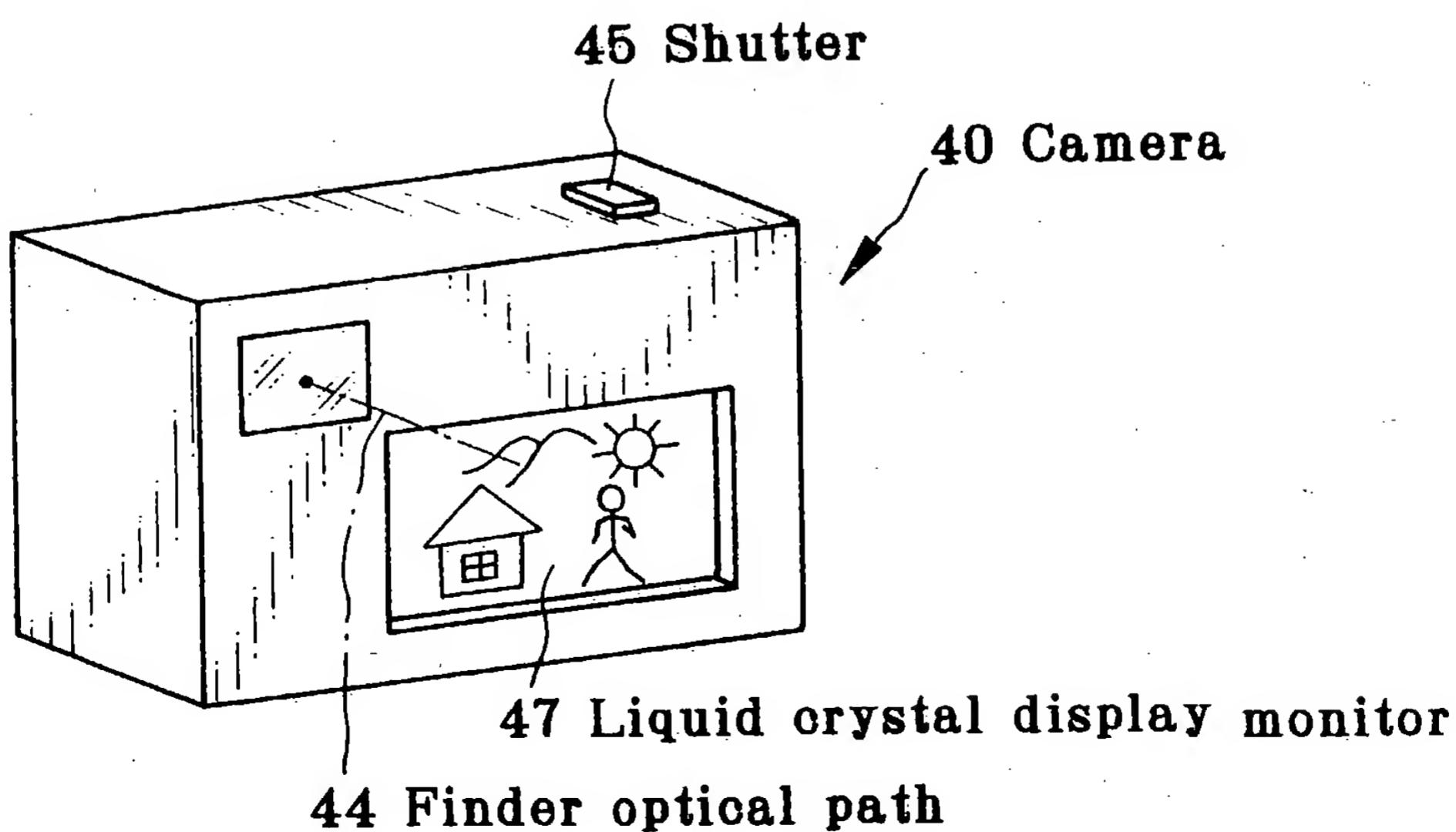


FIG. 40

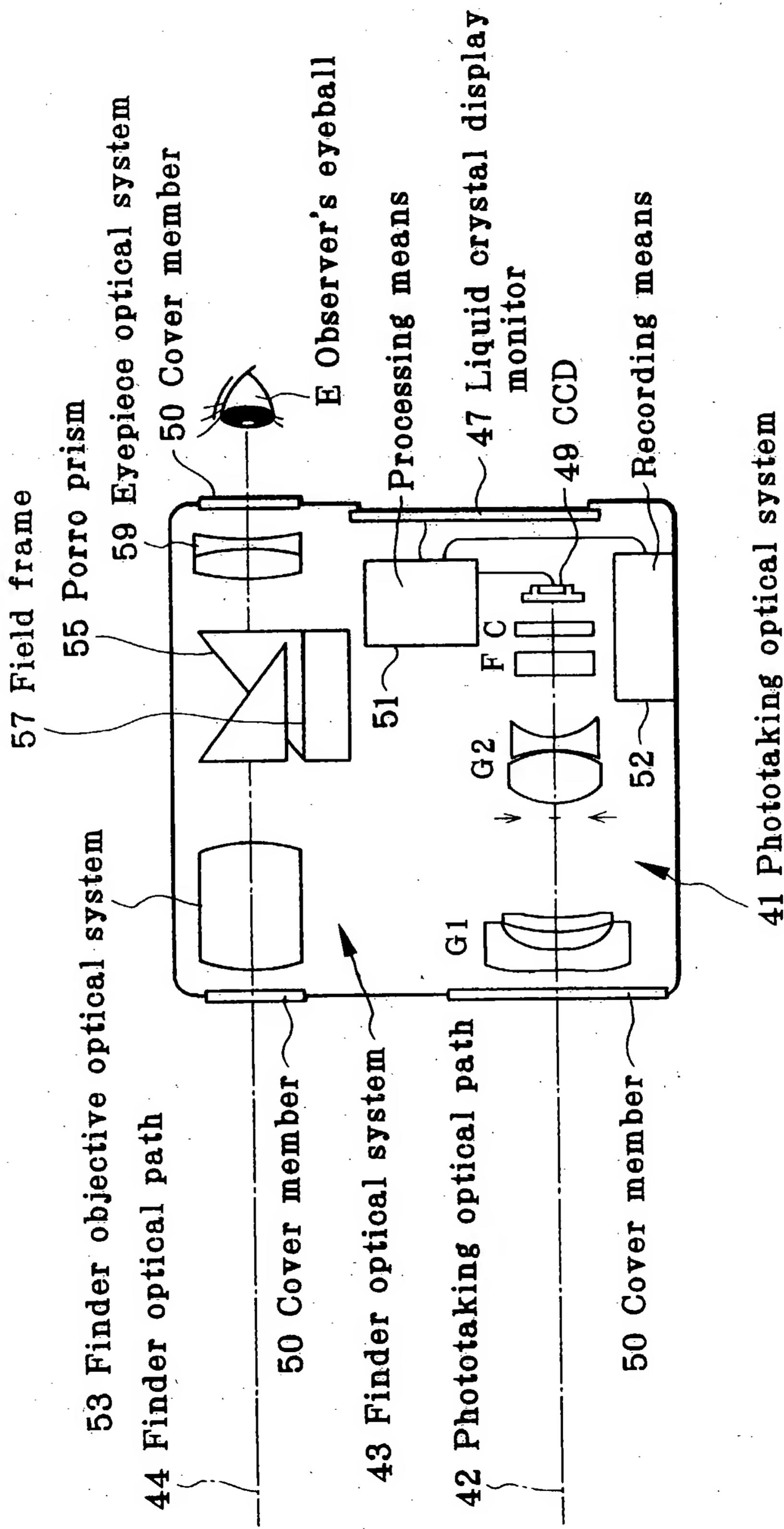


FIG. 41

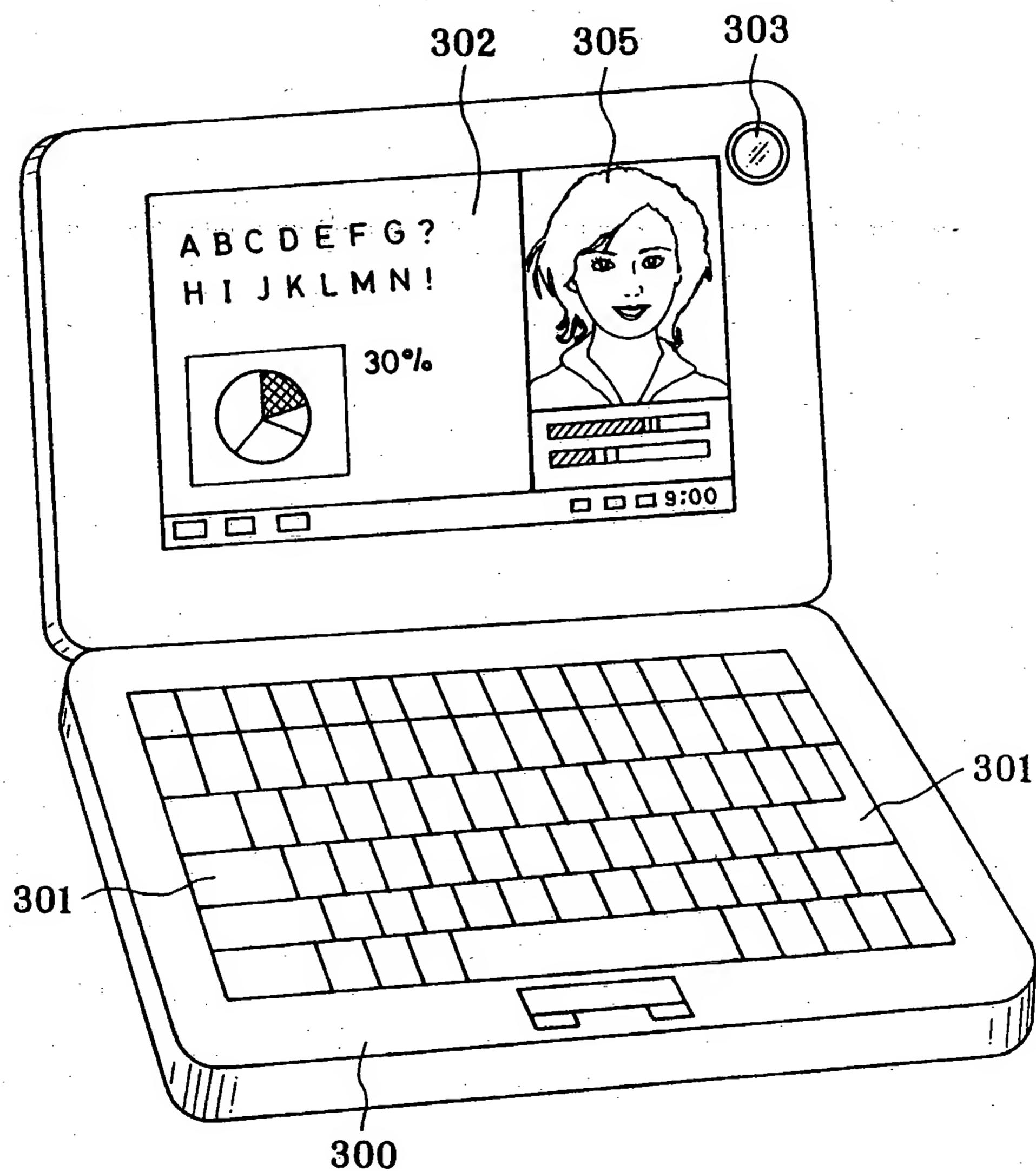


FIG. 42

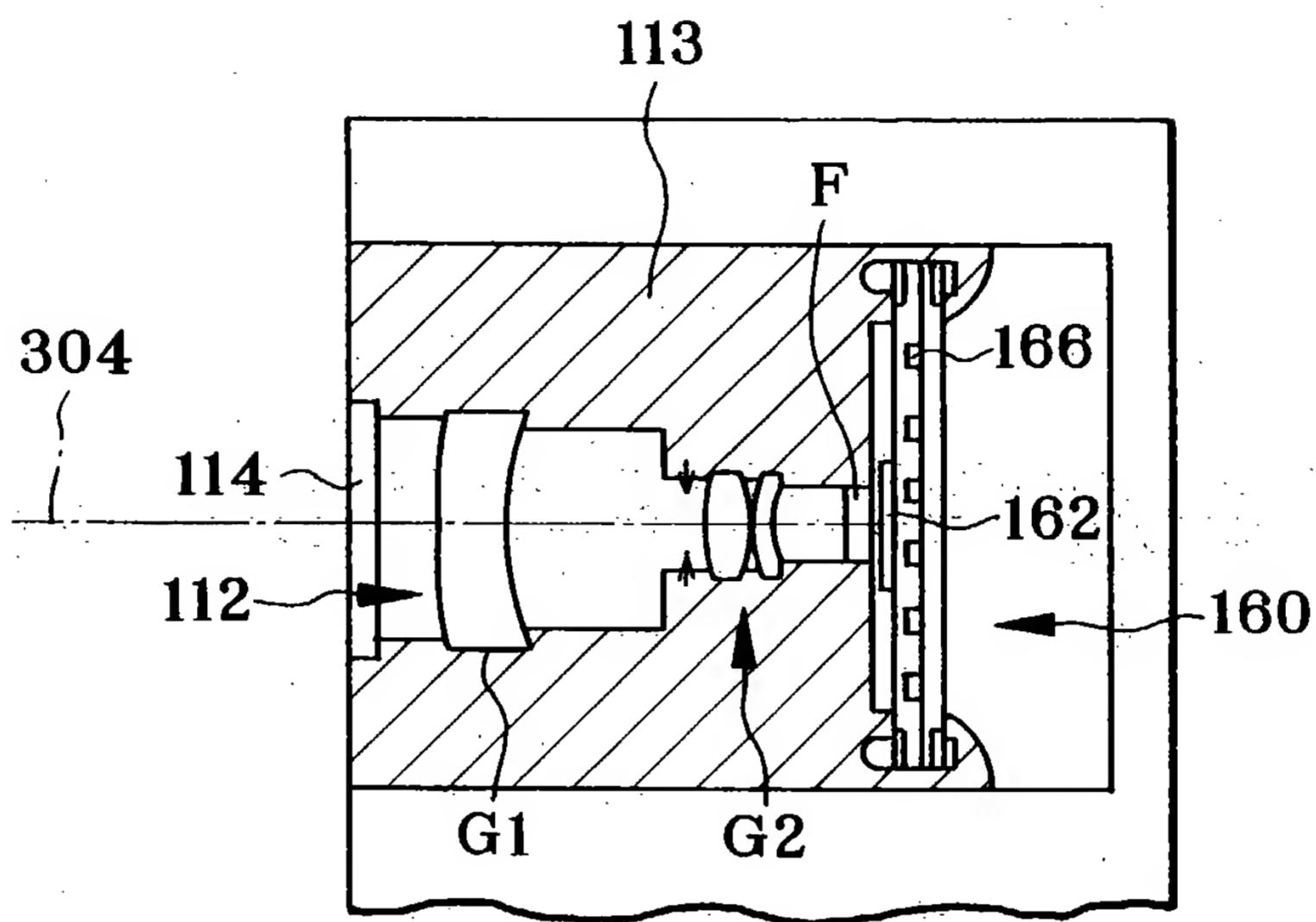


FIG. 43

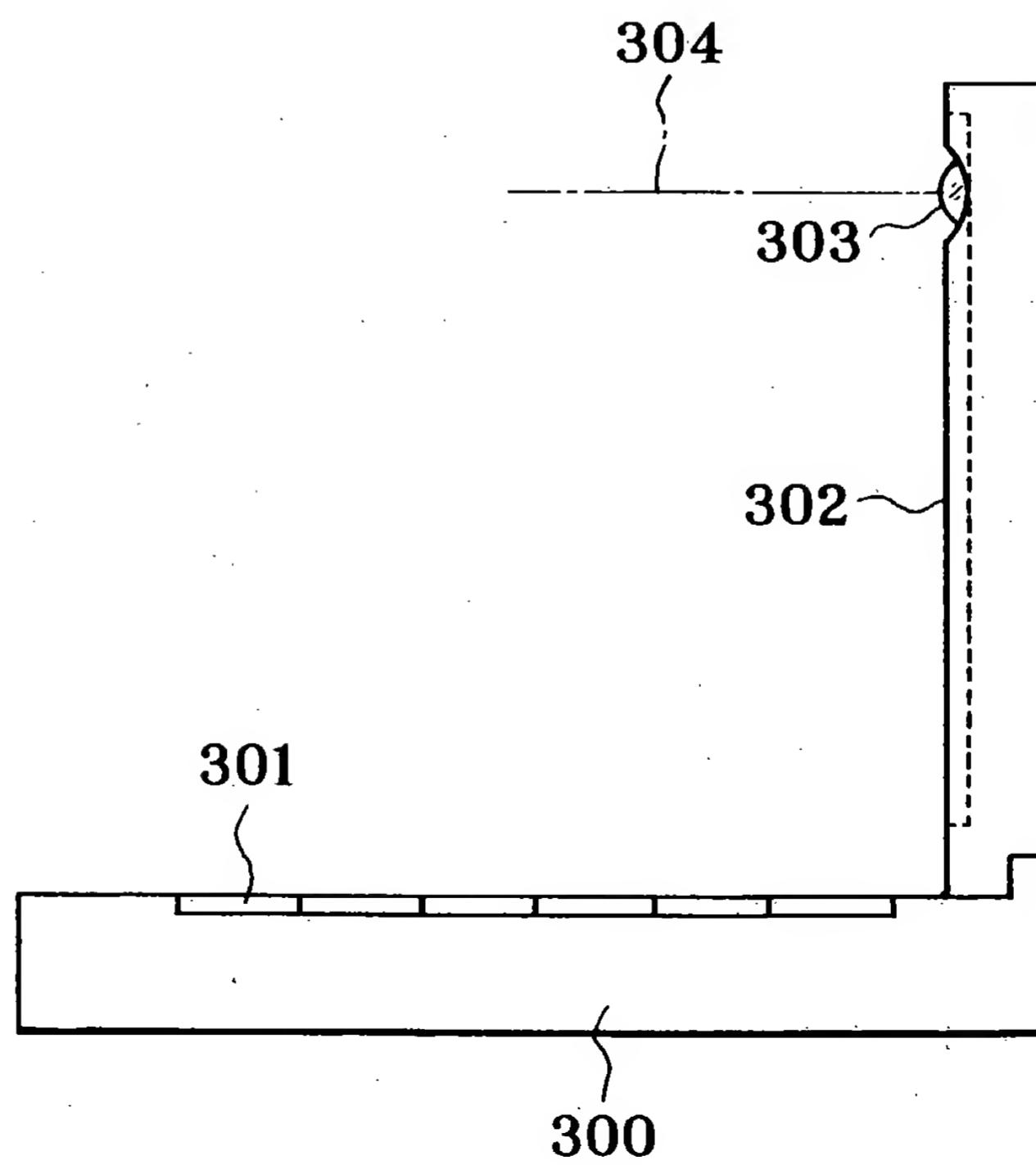


FIG. 44(a)

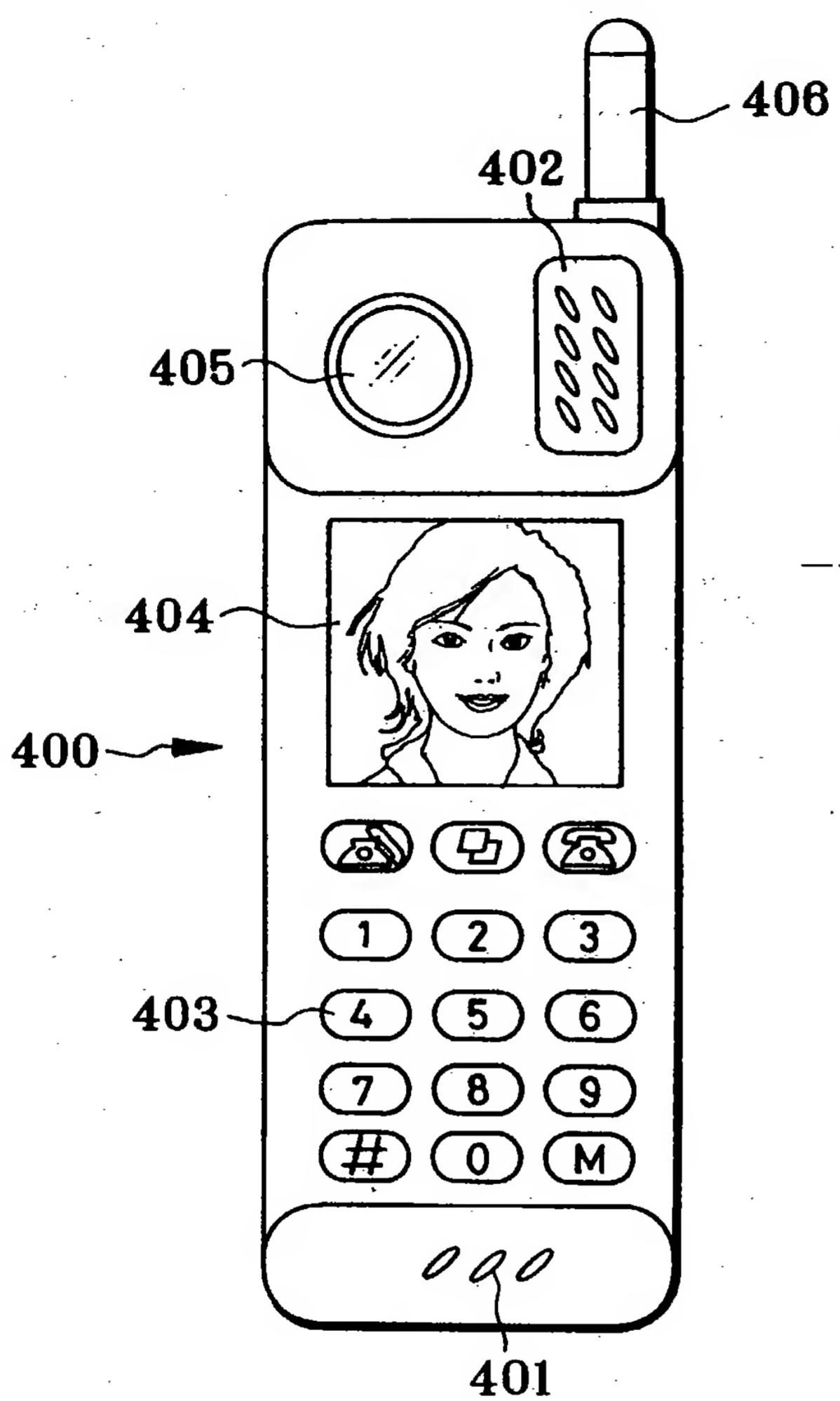


FIG. 44(b)

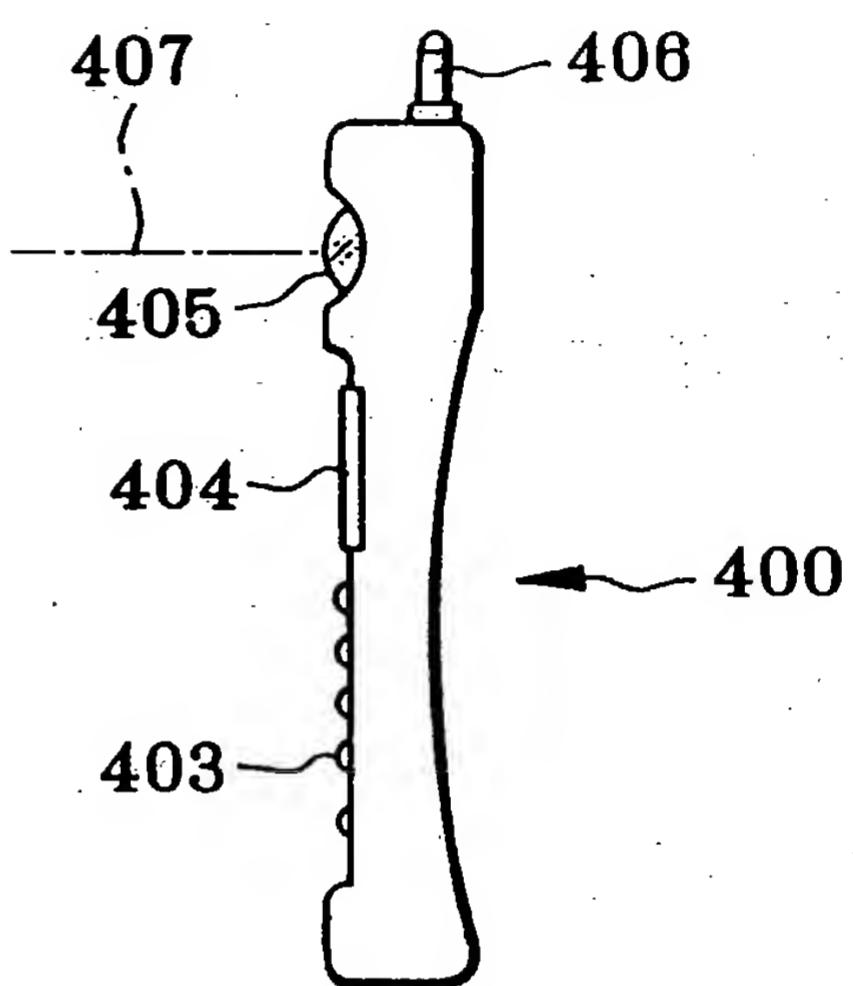


FIG. 44(c)

